

# Analysis Report about Amber Heard **2019 Reddit Contributions**

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# Introduction

**Note:** This report is a part of **Case Study: “Reddit Social Network Analysis Against Influence Operation”**

By analyzing accounts posting/commenting against a victim of a Social Bot Disinformation/Influence Operation.

## We have four main datasets scraped from Reddit

- 1. A dataset with submissions & comments data (2019).
- 2. Users Data (from 2006 to 2019).
- 3. A merged dataset (submissions & comments data, users data).
- 4. Daily creation data (# of accounts created per day from 2006 to 2019).

The data Timezone is Epoch/UTC.

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## Overview

- About **19.82%** of **2019 contributions** were made by
  - banned <sup>1</sup>( **7.92 %** → **1875** ).
  - unverified <sup>2</sup>( **11.9 %** → **2819** ).
- About **18.3% of 2019 submissions** were made by
  - banned ( **3.8%** → **527** )
  - unverified ( **4.52%** → **173** ).
- **18.9 %** of the **peak day ( 2019-03-15 )** were made by
  - banned ( **5.68%** → **183** ).
  - unverified ( **13.3%** → **427** ).
- **10%** of **submissions** of the **peak day submissions (2019-03-15 )** were made by
  - banned accounts ( **2.5%** → **1** ).
  - unverified accounts ( **7.5%** → **3** ).

## Statistics of unverified accounts

- **Description of contributions scores**

- count <sup>3</sup>	2809
- mean	13.32
- std	96.85
- min	-150
- 25%	1
- 50%	2
- 75%	7
- max	3748
- The percentage of **2019 contributions** made by **Unverified** accounts **11.9%** with **2819 contributions**.
- Total **unverified** accounts **comments** in **2019**, **2646**.
- Number of contributed **users** is **1614**.
- The percentage of **2019 submissions** made by **Unverified** accounts **4.53%** with **173 submissions**.

## Statistics of Banned accounts

- **Description of contributions scores**

- count	1871
- mean	38.32
- std	173.02
- min	-247
- 25%	1
- 50%	3
- 75%	16
- max	4700

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<sup>1</sup> This user banned from reddit

<sup>2</sup> The user has not verified mail for this account.

<sup>3</sup> Number of contributions of unverified accounts which have scores.

- The percentage of **2019 contributions** made by **Banned** accounts **7.92%** with **1875 contributions**.
- Number of contributed **users** is **769**.
- Total **banned** accounts **comments** in **2019** is **1348**.
- The percentage % of **2019 submissions** made by **Banned** accounts **13.8%** with **527 submissions**

### Top users statistics:

- **"3rdPrizelsYourFired":(banned)** these user contributions got the highest scores.

(Since this user is banned, we have no user information but, we can further investigate his contributions)

- made 6 contributions
  - submission 5
  - comment 1

- **Peregrino234(banned)** this user contribution got the minimum scores.
  - he made 6 different comments in one subreddit **r/pussypassdenied** in the same day **2019-03-03**
- **"imsrikant"(banned)**: this user made 22 submissions with the same text in the same time in 6 different subreddits

- r/Celebhub 8
- r/gentlemanboners 7
- r/CelebBattles 4
- r/Celebs 2
- r/goddesses 1
- r/WatchItForThePlot 1

in these dates

- 2019-05-04 6
- 2019-04-17 6
- 2019-05-06 3
- 2019-04-15 3
- 2019-04-19 2
- 2019-12-28 1
- 2019-04-16 1
- 2019-05-10 1

- **users with highest link karma (unverified)**
  - 'WikiTextBot'
  - 'agree-with-you'
  - 'B-VOLLEYBALL-READY'
- **agree-with-you(unverified)** unverified account with the highest comment karma
  - made 2 comments on two different subreddits:
    - r/PurplePillDebate 1
    - r/JerkOffToCelebs 1
  - the time of two comments is: 2018-03-11 00:17:42

- A lot of unverified users has a link karma of **1**

'spudd666', 'SkribbleSkout', 'itsmevictor', 'pragmaticerection', 'IWW4', 'Zozbot', '1Telluride',  
'Beaniebabetti', 'Jewels419', 'hackerman991', 'Quilpo', 'keyboardbuddhist'

- **ee4m (unverified)** has the minimum comment karma
- **RoyisOurBoy (unverified)** this user has the highest score among the unverified users
  - created at 2019-03-02
  - made 3 submissions in 2 different subreddits:
    - r/entertainment 2
    - r/movies 1
- **JustMadeThisNameUp (unverified)** this user has the minimum score among the unverified users

## Statistics of 2018 and 2019 accounts.

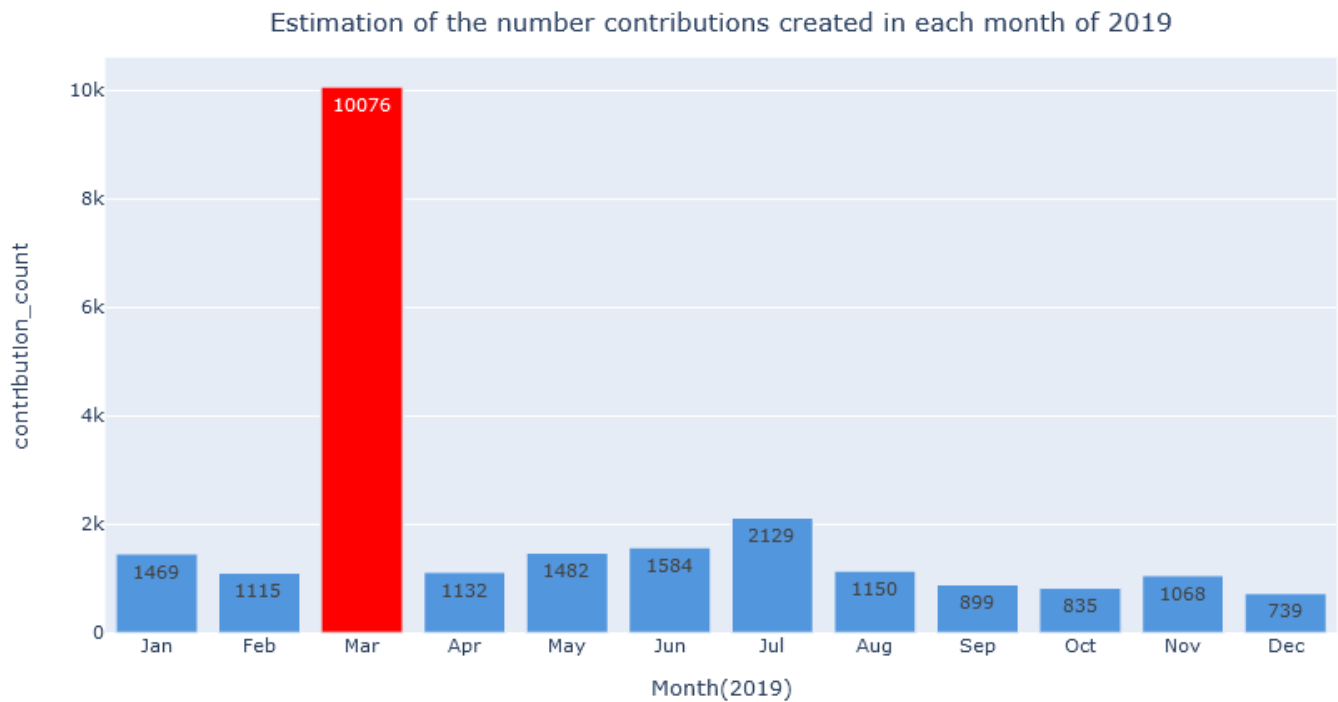
- About 23.79% of 2019 **Contributions** in 2019 were made by users created in 2018 and 2019.
  - 2018 (14.2% → 3357).
  - 2019 (9.59% → 2270).
- About 15.91% of 2019 **Contributions** on **2019-03-15** were made by users created in 2018 and 2019.
  - 2018 (12.4% → 399).
  - 2019 (3.51% → 113).
- About 25.4% of 2019 **Submissions** in 2019 were made by users created in 2018 and 2019.
  - 2018 (14.7% → 562).
  - 2019 (10.7% → 408).
- About 17.5% of 2019 **Submissions** on **2019-03-15** were made by users created in 2018 and 2019.
  - 2018 (15% → 6).
  - 2019 (2.5% → 1).

## 2019 accounts contributions scores

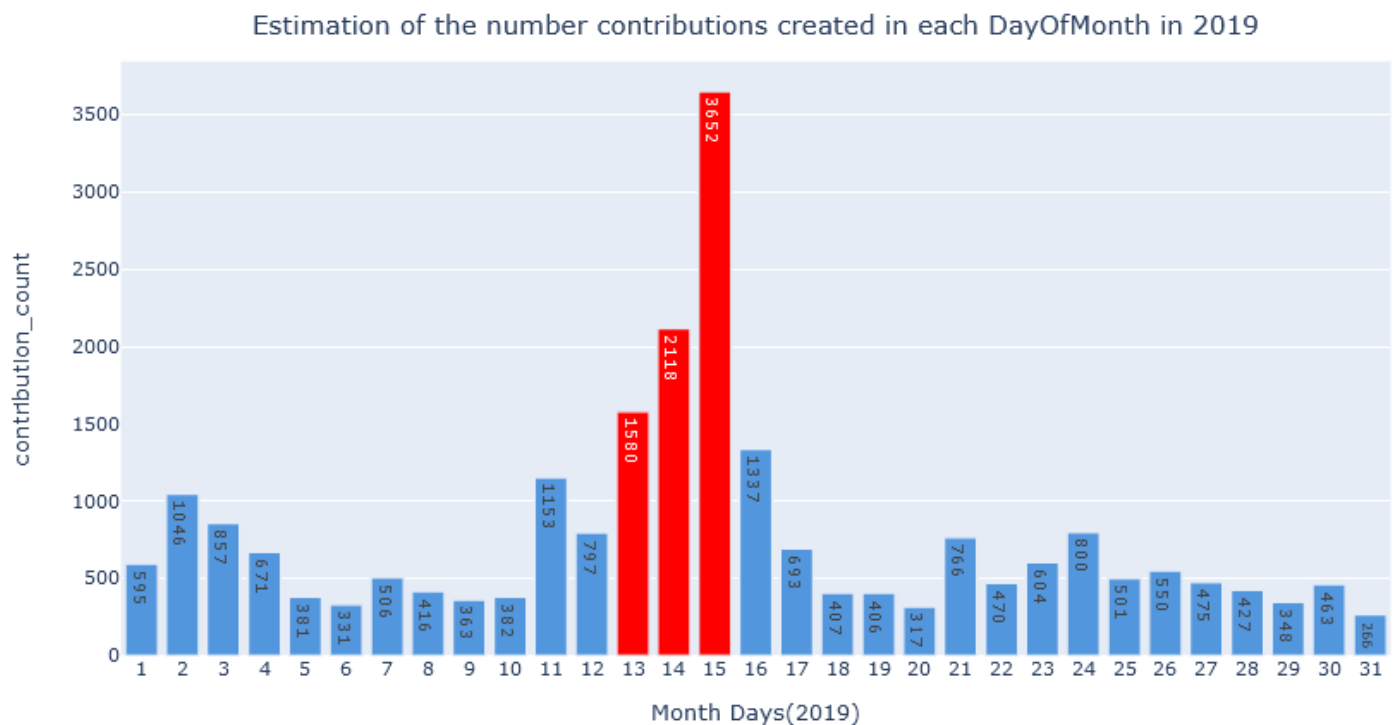
- |         |        |
|---------|--------|
| - count | 23630  |
| - mean  | 23.89  |
| - std   | 175.29 |
| - min   | -247   |
| - 25%   | 1      |
| - 50%   | 2      |
| - 75%   | 9      |
| - max   | 13581  |

# Peaks

## Peak Months



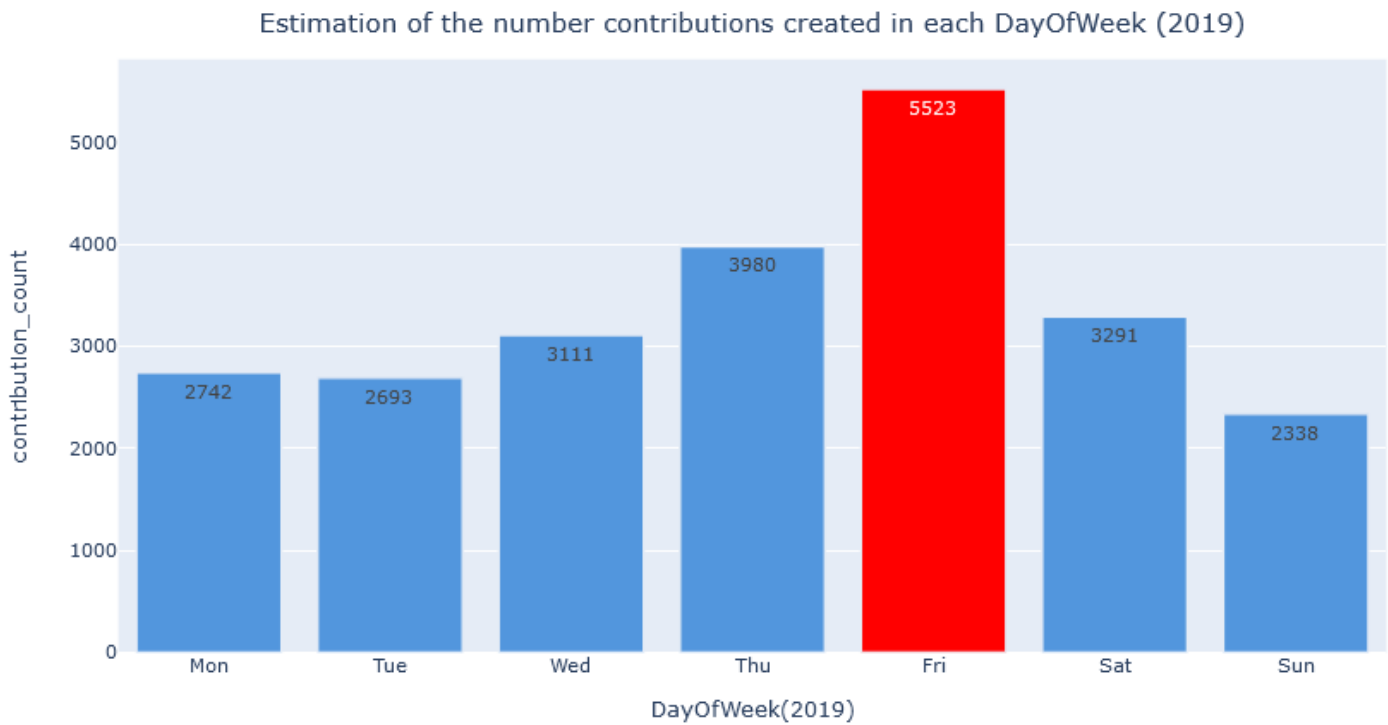
## Peak Days of The Months<sup>4</sup>



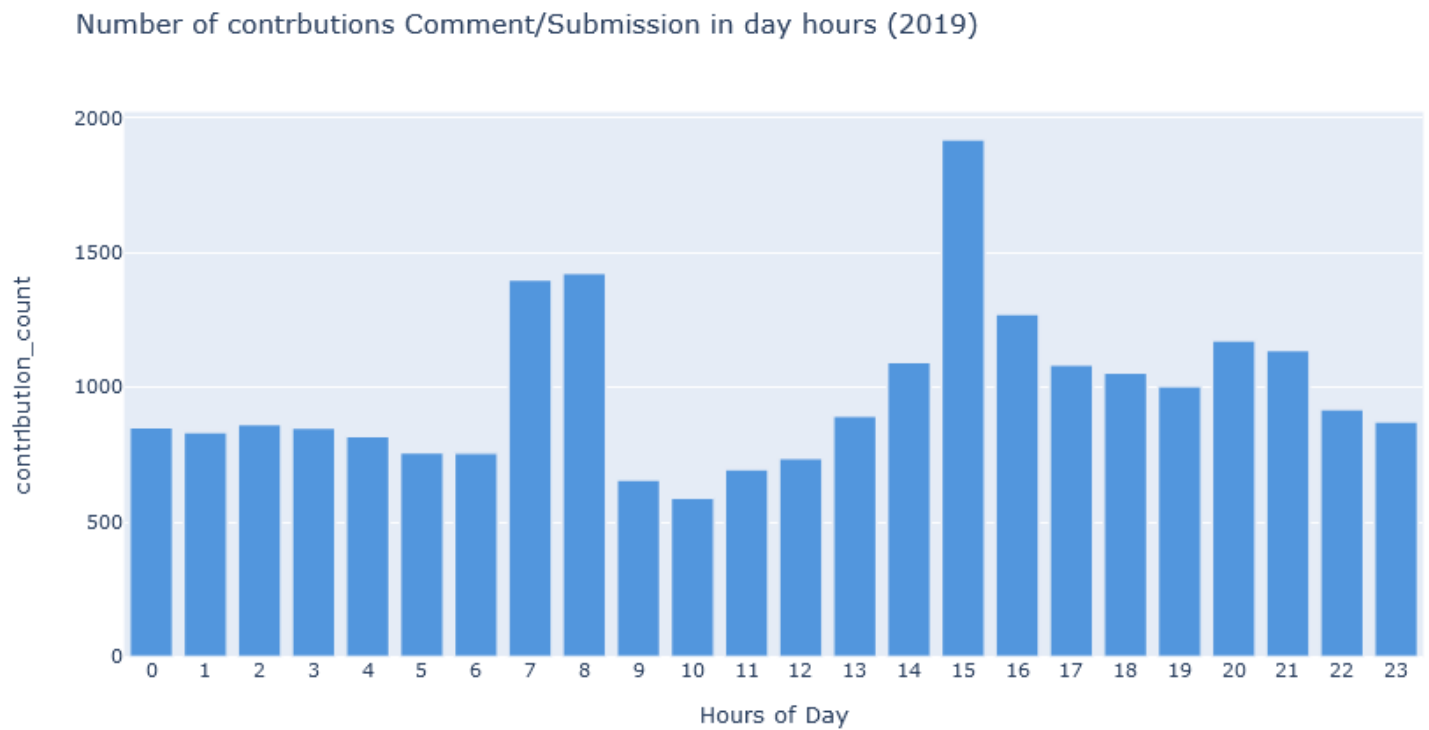
<sup>4</sup> Day of month means day 1 in all months, 2 in all months.. etc. ( sum of all contributions on the same day of each month)



## Peak Days of The Week



## Peak Hours

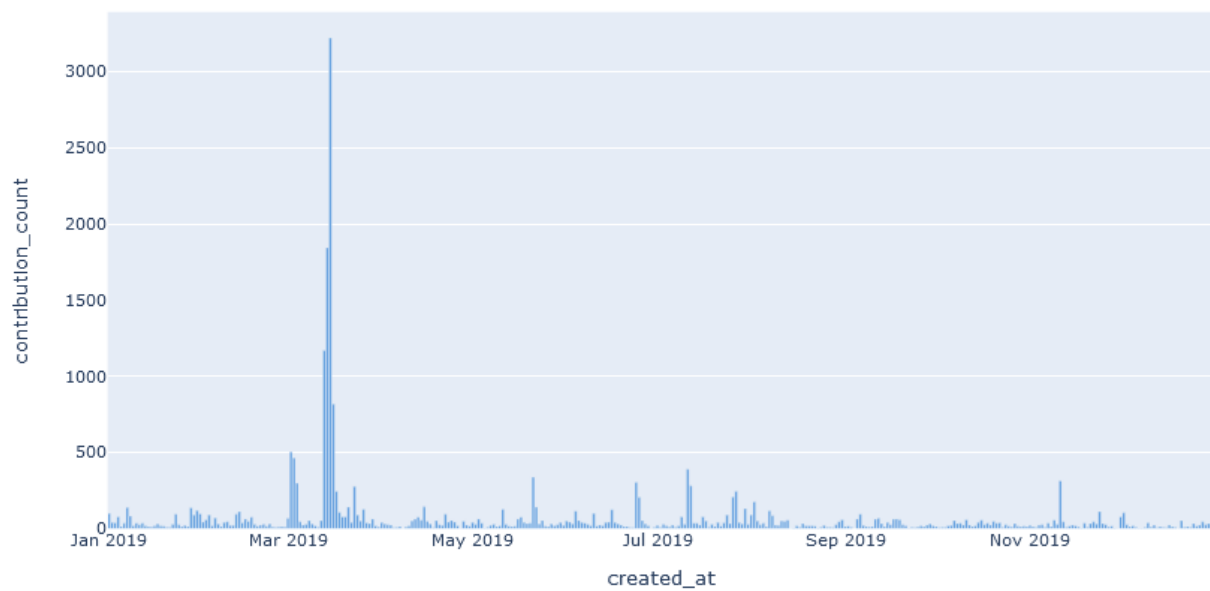


## Peak Dates

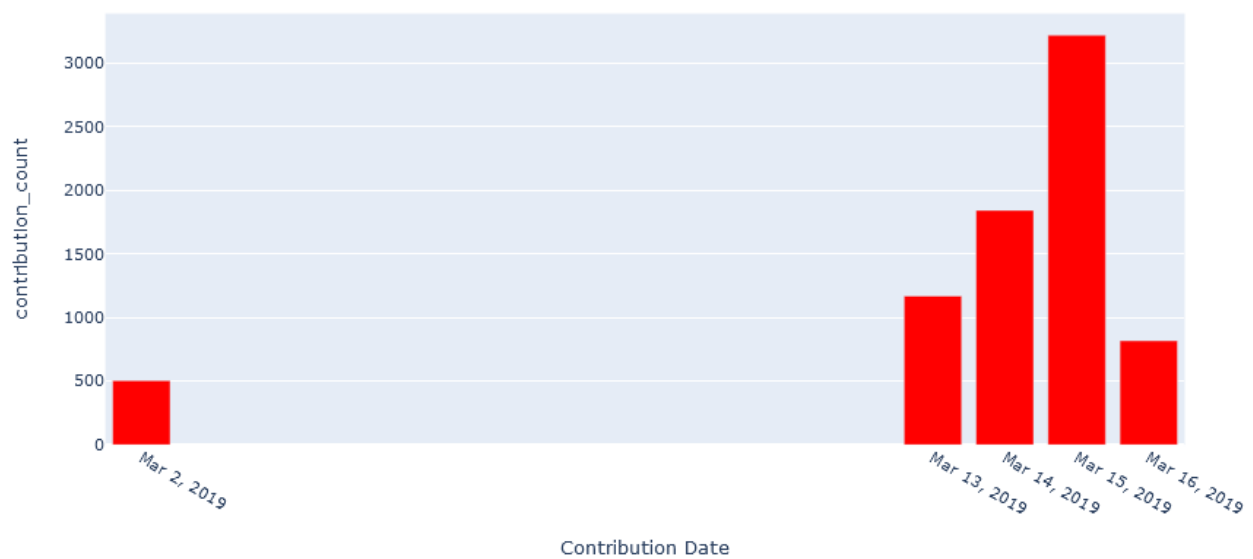
In this year the peak dates are:

created_at	contribution_count
2019-03-15	3221
2019-03-14	1844
2019-03-13	1170
2019-03-16	818
2019-03-02	505

The number of contributions created in each date



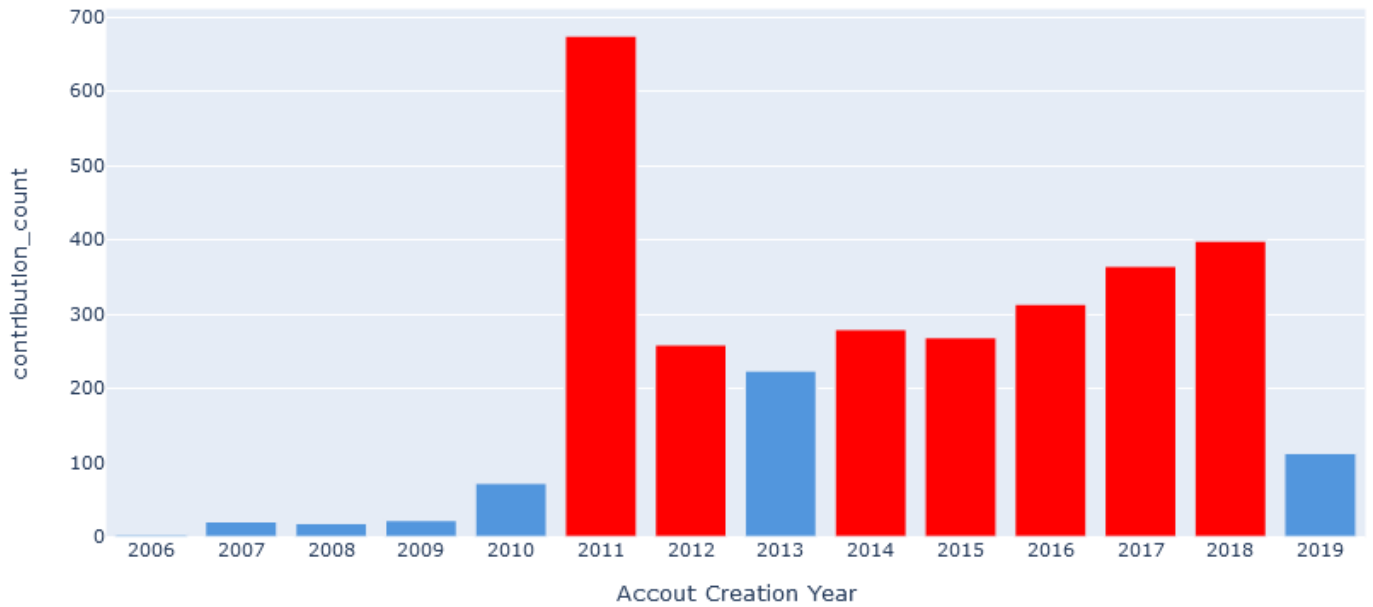
Number of contributions Comment/Submission in trendy dates



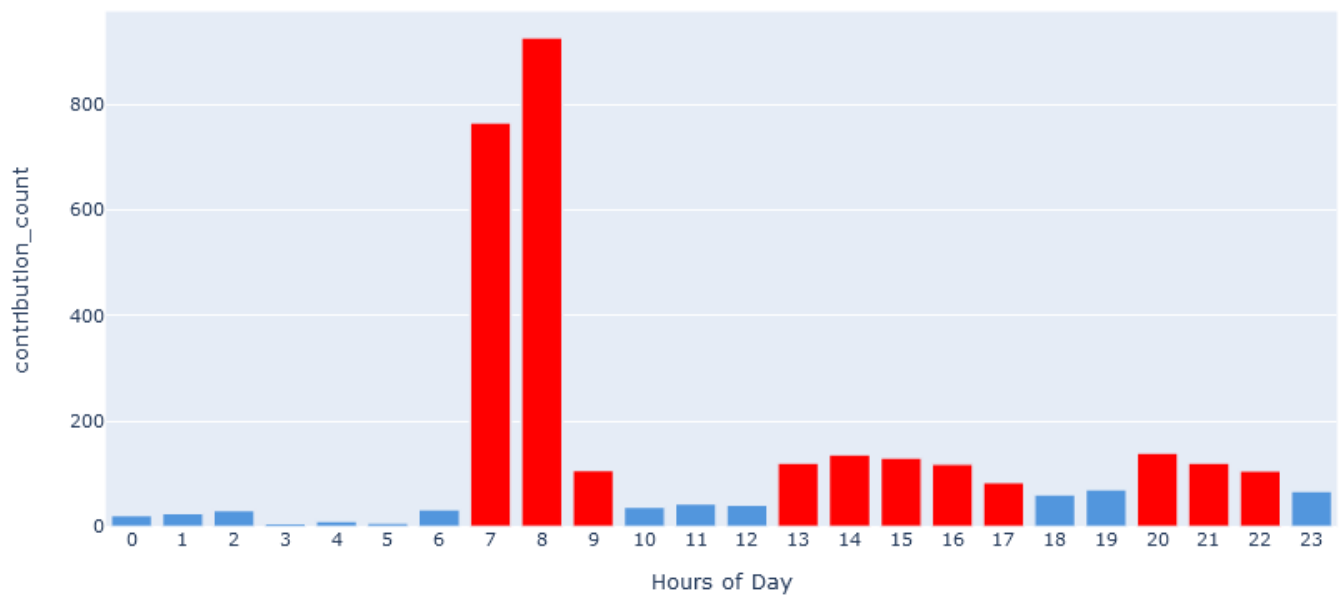
March 15,2019

- **3221 contributions** were made by **1553 users**.

The creation year of the accounts contributed on the peak day (2019-03-15)



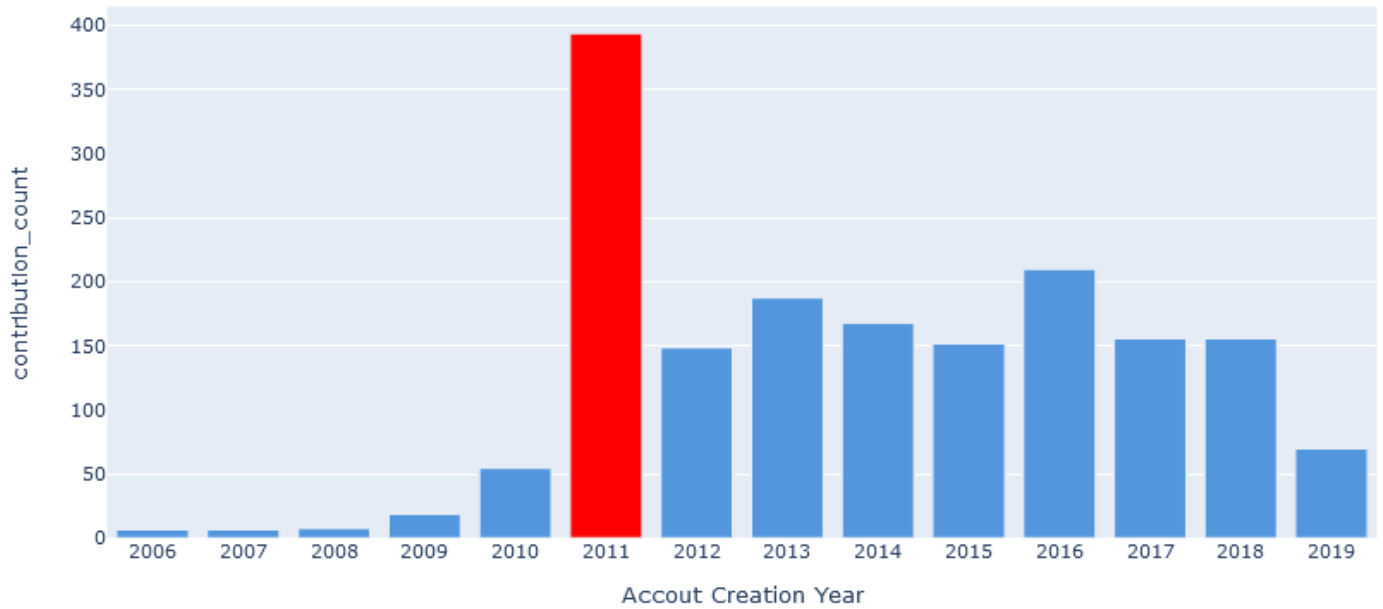
Number of contributions Comment/Submission in day hours



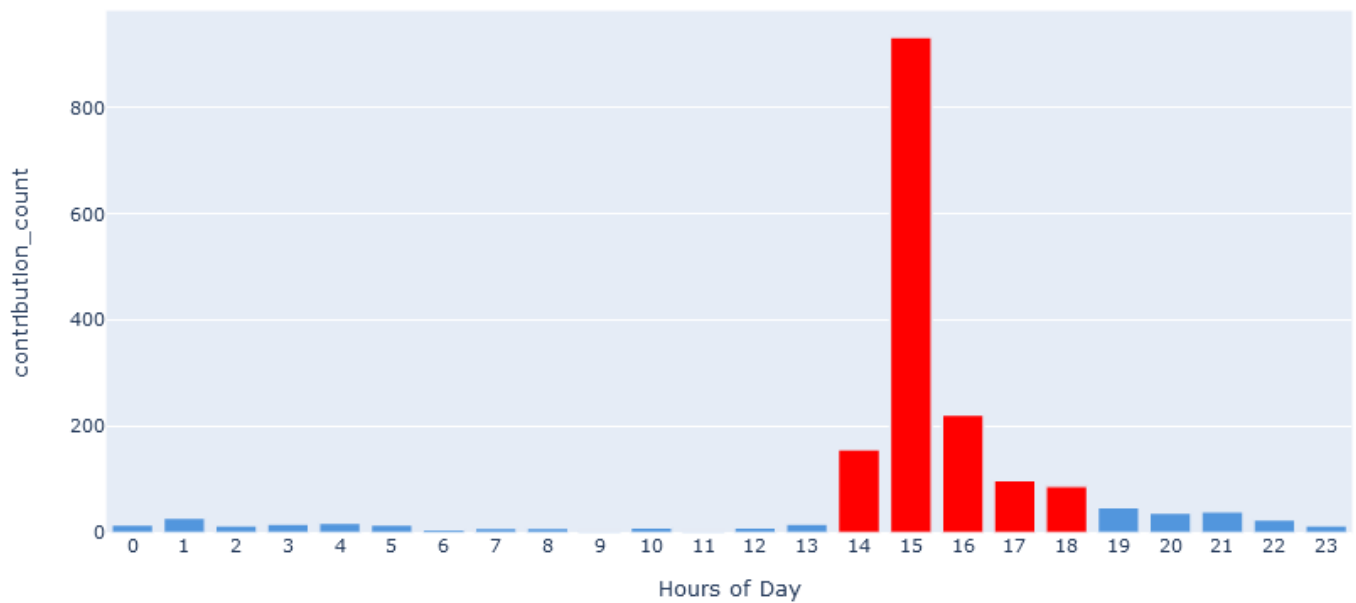
March 14, 2019

- **1844 contributions** were made by **893 users**.

The creation year of the accounts contributed on the peak day (2019-03-14)



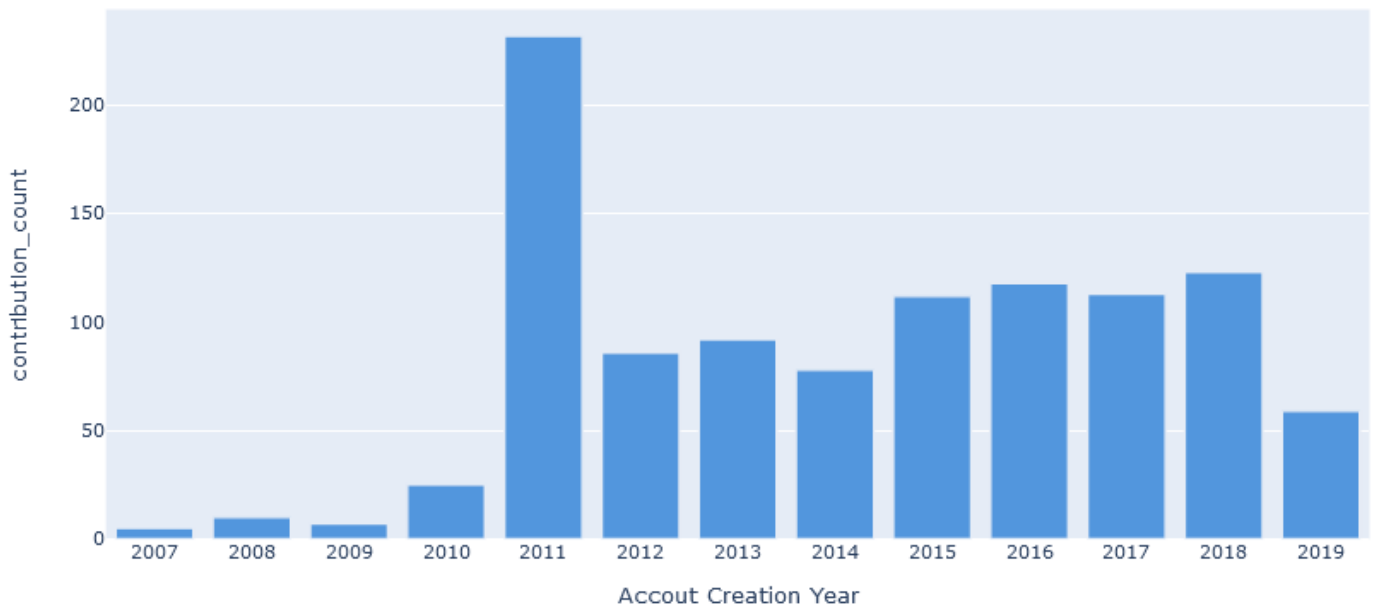
Number of contributions Comment/Submission in day hours



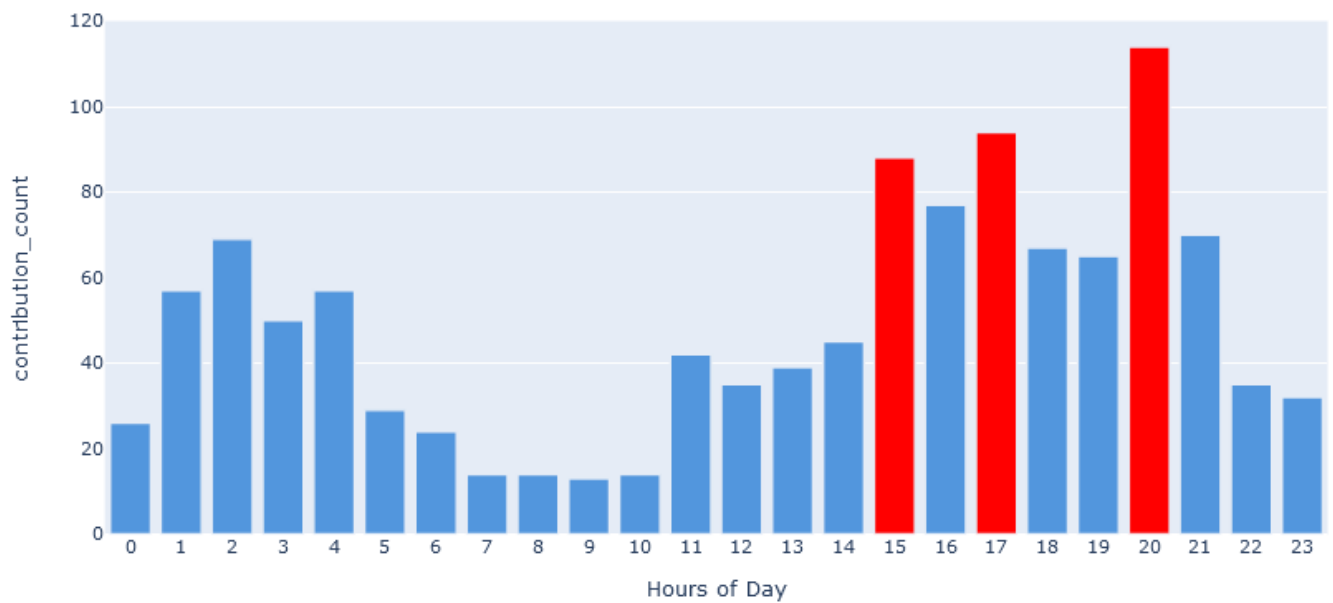
March 13, 2019

- **1170 contributions** were made by **536 users**.

The creation year of the accounts contributed on the peak day (2019-03-13)



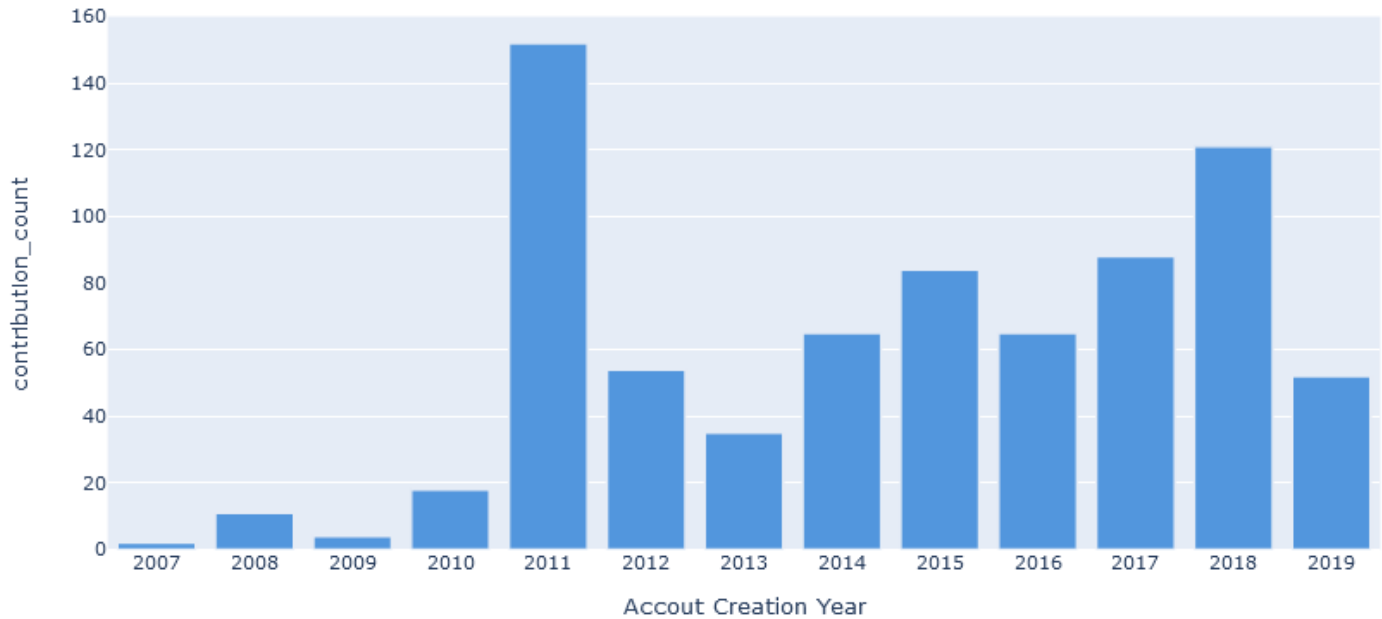
Number of contributions Comment/Submission in day hours



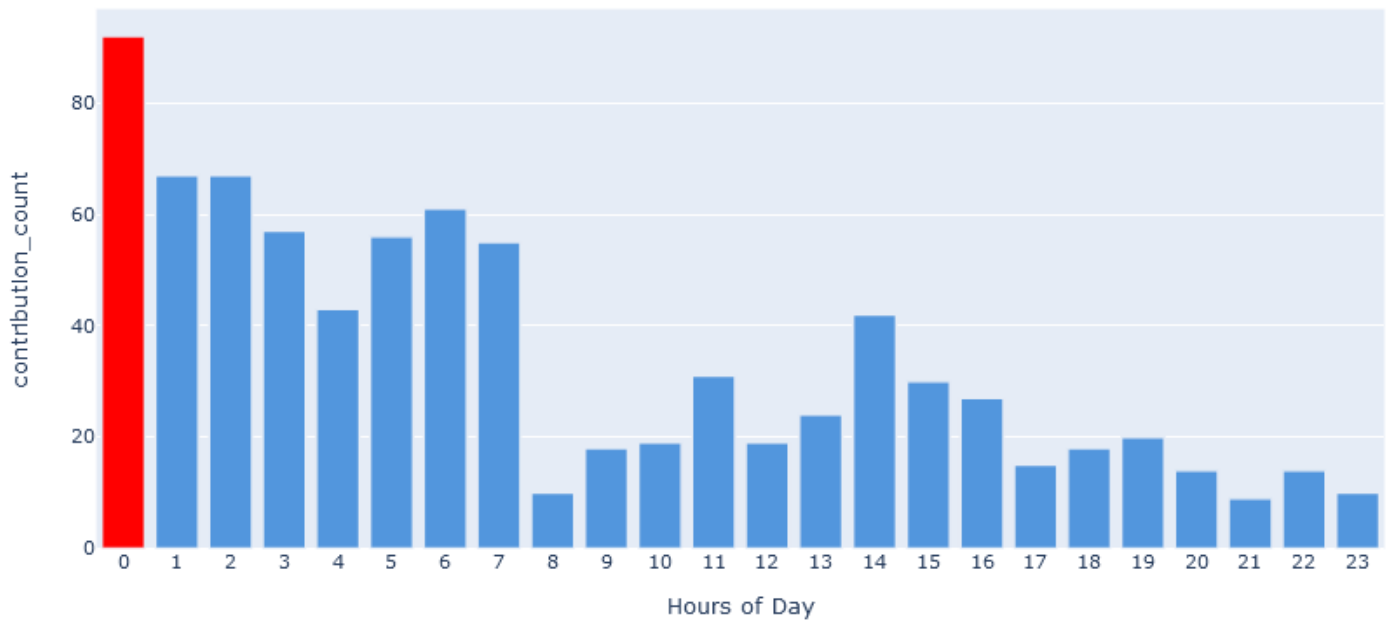
March 16, 2019

- **818 contributions** were made by **466 users**.

The creation year of the accounts contributed on the peak day (2019-03-16)



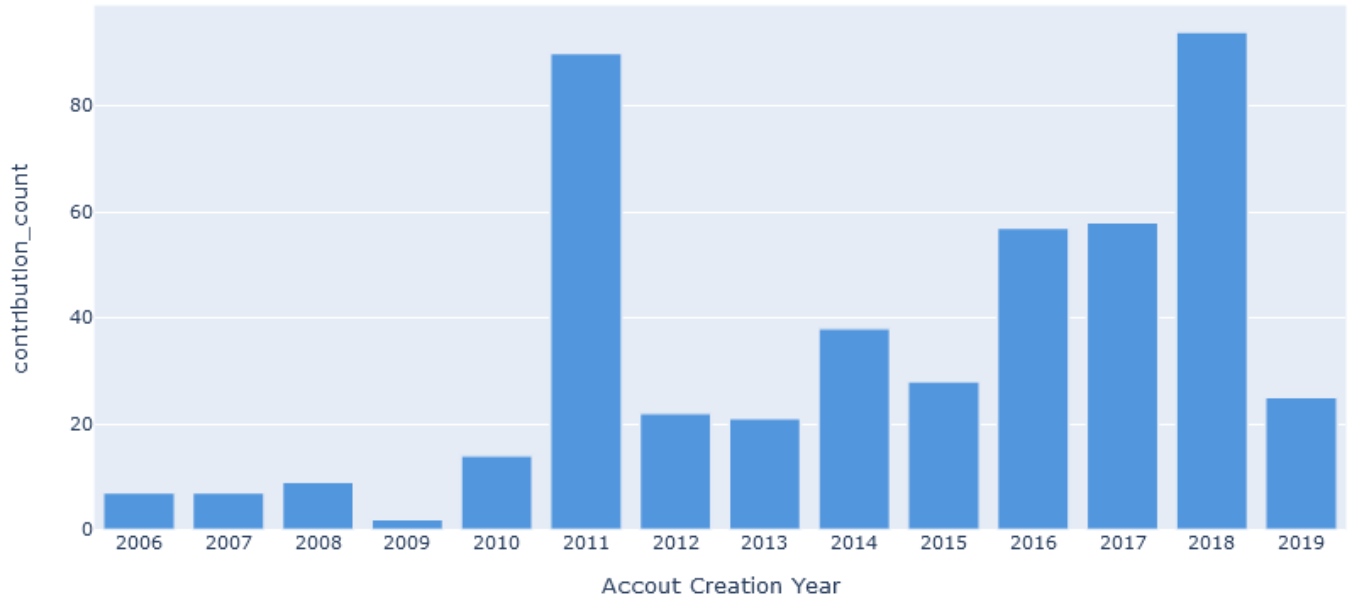
Number of contributions Comment/Submission in day hours



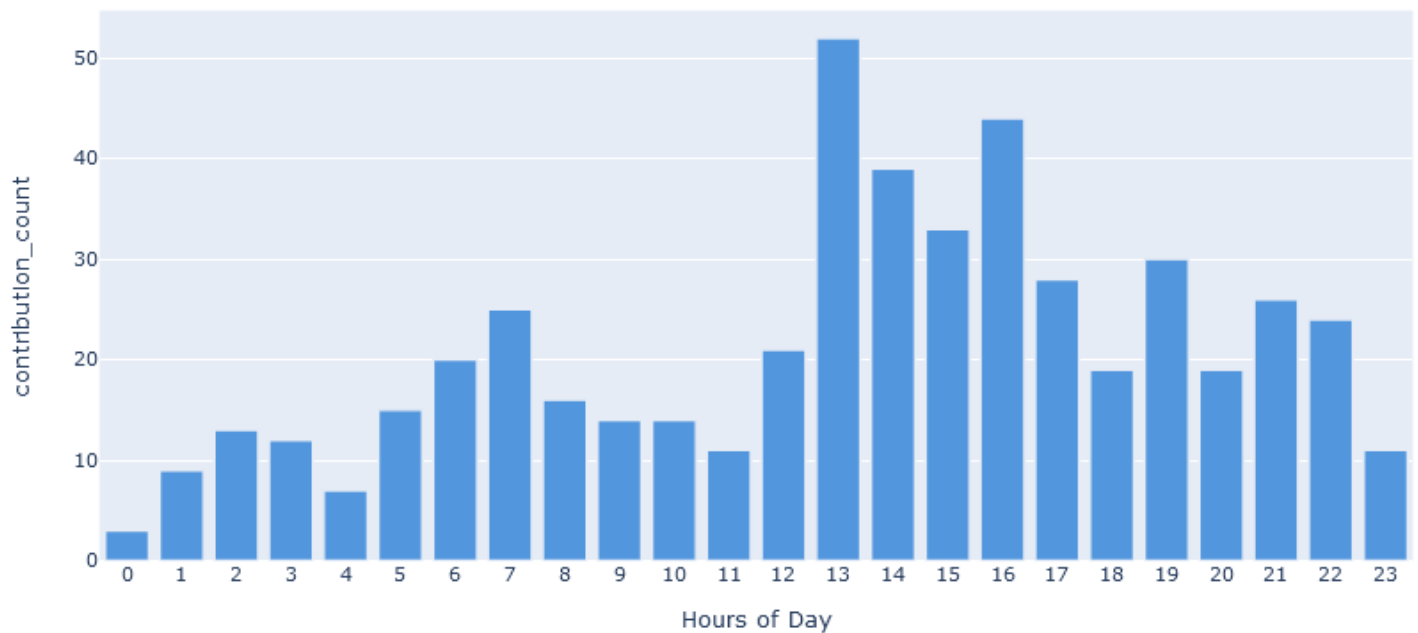
March 2, 2019

- **505 contributions** were made by **275 users**.

The creation year of the accounts contributed on the peak day (2019-03-02)



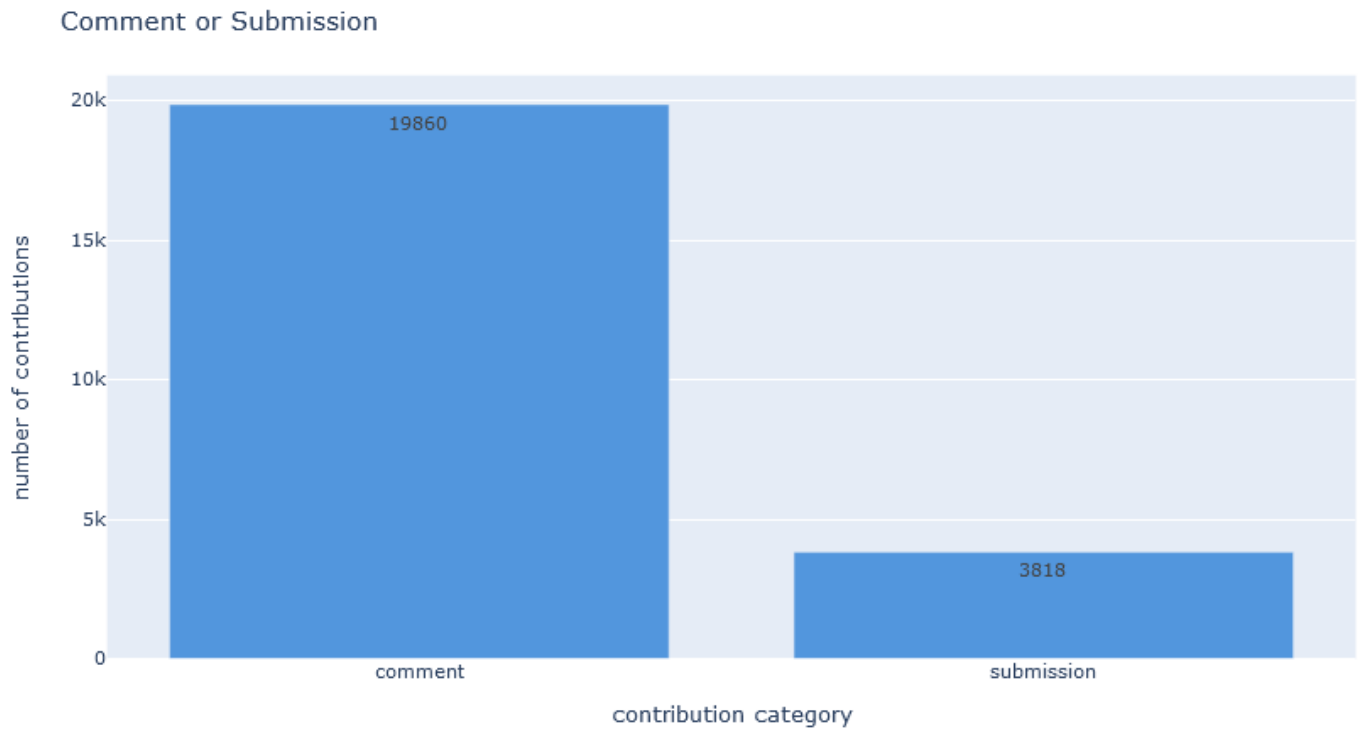
Number of contributions Comment/Submission in day hours



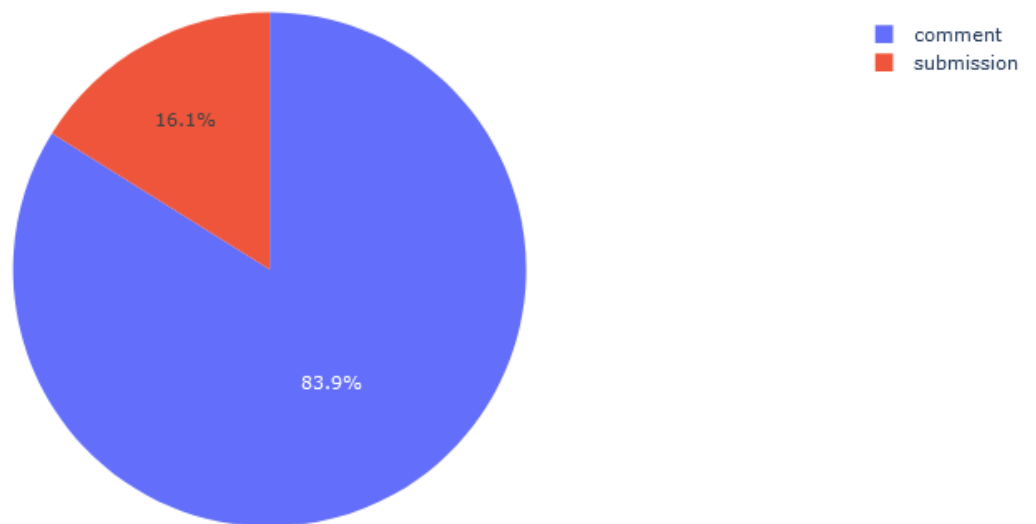
# Exploratory Data Analysis

## Reddit Contributions (Comments / Submissions)

The # of submissions VS the # of comments



Comment or Submission

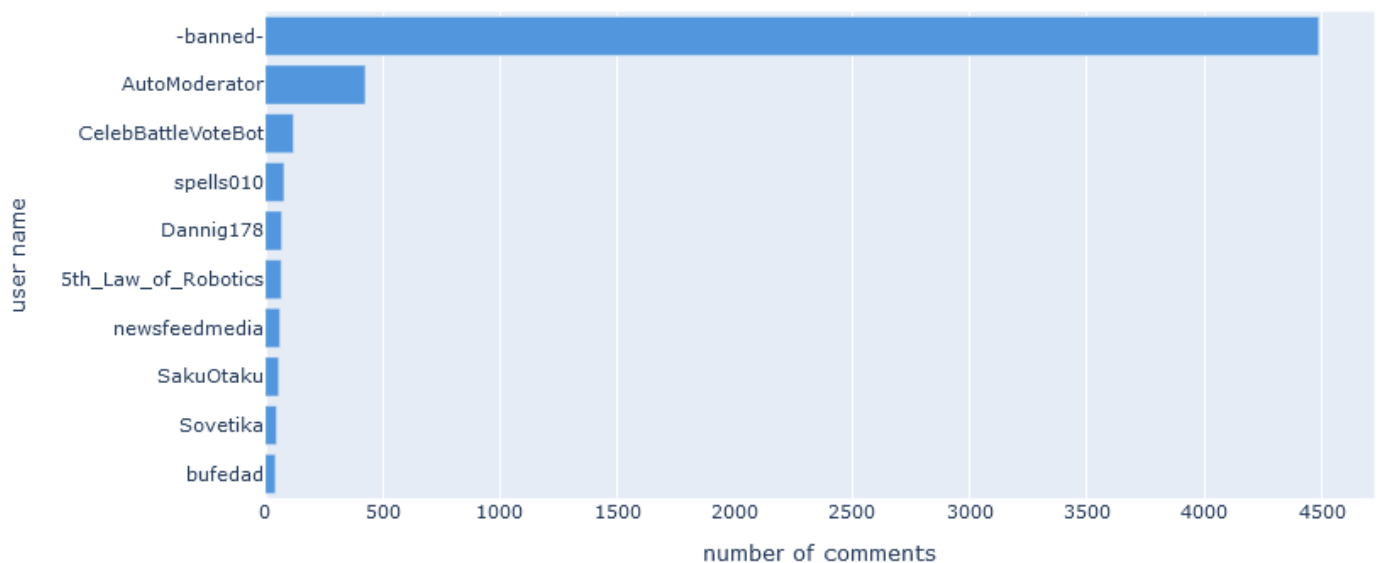




## Most contributed user

	index	author	
0	-banned-	4487	
1	AutoModerator	426	
2	CelebBattleVoteBot	120	
3	spells010	80	
4	Dannig178	70	
5	5th_Law_of_Robotics	68	
6	newsfeedmedia	62	
7	SakuOtaku	57	
8	Sovetika	48	
9	bufedad	43	

## Most commented user in 2019



## Further Investigate The Most Commented Users In 2019

### AutoModerator

AutoModerator is a system built into reddit that allows moderators to define "rules" (consisting of checks and actions) to be automatically applied to posts in their subreddit.

- **Automoderator made 426 Comments in 2019** on those subreddits:

- r/JerkOffToCelebs 189
- r/Celebhub 102
- r/TrueFMK 21
- r/OutOfTheLoop 20
- r/CelebEconomy 16
- r/DC\_Cinematic 12

- r/SexiestLeague 5
- r/AskReddit 5
- r/celebnsfw 4
- r/unpopularopinion 4

## CelebBattleVoteBot

Voting bot.

- **CelebBattleVoteBot made 120 Comments in 2019** on those subreddits:
  - r/CelebBattles 116
  - r/Celebhub 4

## spells010

Bot

- **Spells010 made 80 submissions in 2019** on one subreddit **u/spells010** .
  - r/JerkOffToCelebs 189
  - r/Celebhub 102
  - r/TrueFMK 21
  - r/OutOfTheLoop 20
  - r/CelebEconomy 16
  - r/DC\_Cinematic 12
  - r/SexiestLeague 5
  - r/AskReddit 5
  - r/celebnsfw 4
  - r/unpopularopinion 4

This user made 80 submissions in only one subreddit (u/spells010) which is the same as his name! He is absolutely a bot, he is announcing a phone number (+91 9116496706).

## Dannig178

- **Automoderator made 70 contributions in 2019**
  - submission 67
  - comment 3
- on those subreddits:
  - r/celeb\_nylons 7
  - r/celeb\_underwear 7
  - r/celebheels 7
  - r/BralessCelebs 7
  - r/CelebritiesBarefoot 7
  - r/handbra 5
  - r/CelebrityButts 4
  - r/Celebs 4
  - r/CelebrityPokies 3
  - r/celebritylegs 3
- With those texts:
  - Amber Heard 67

- Amber 1
- FMK 1
- /r/celeb\_underwear 1

5th\_Law\_of\_Robotics

## Negative Submissions

- made **68 Contributions in 2019**
  - comment 62
  - submission 6
- on those subreddits:
  - r/WeinsteinEffect 39
  - r/MensRights 10
  - r/entertainment 7
  - r/Egalitarianism 7
  - r/Toxic\_Femininity 3
  - r/RedditCensors 1
  - r/ProMaleCollective 1

	created_at	n_contributions
1	2019-03-13	36
2	2019-03-14	11
4	2019-03-24	7
9	2019-09-11	5
5	2019-03-26	3
0	2019-03-07	1
3	2019-03-23	1
6	2019-07-27	1
7	2019-07-30	1
8	2019-08-30	1
10	2019-09-12	1

Newsfeedmedia news bot

- made **62 submissions in 2019** on this subreddit **r/newsfeedmedia**

	created_at	n_contributions
15	2019-04-12	2
26	2019-05-13	2
51	2019-10-11	2
17	2019-04-14	2
30	2019-05-17	2
42	2019-08-16	1
32	2019-05-25	1
33	2019-05-26	1
34	2019-06-13	1
35	2019-07-02	1

## SakuOtaku

- made **57 contributions in 2019**

- comment 54
- submission 3

on those subreddits:

- r/WeinsteinEffect 48
- r/GamerGhazi 4
- r/movies 4
- r/harrypotter 1

	created_at	n_contributions
2	2019-03-13	19
3	2019-03-14	15
8	2019-05-22	11
4	2019-03-16	4
0	2019-03-03	2
1	2019-03-04	2
5	2019-04-12	2
6	2019-04-13	1
7	2019-04-14	1

## Sovetika

- made **48 submissions in 2019** on those subreddits:

- r/STRANI 23
- r/SOVIKA 17
- r/lukomorye 8

	created_at	n_contributions
6	2019-06-27	23
5	2019-05-04	17
1	2019-03-02	2
2	2019-03-03	2
4	2019-03-15	2
0	2019-02-23	1
3	2019-03-04	1

- text:

```
Amber Heard (z835) 1
Amber Heard (s386) | Sovetika.ru - знаменитости 1
Amber Heard (z1231) 1
Amber Heard (z1008) 1
Amber Heard (s379) | Sovetika.ru - знаменитости 1
Name: text, dtype: int64
```

Check whether the users with the most contributions are mod<sup>5</sup>, gold<sup>6</sup> or having a verified email

- -banned-	4487
- AutoModerator	426
- CelebBattleVoteBot	120
- spells010	80
- Dannig178	70
- 5th_Law_of_Robotics	68
- newsfeedmedia	62
- SakuOtaku	57
- Sovetika	48
- bufedad	43
- DerHander	41
- RuleIV	40
- guac_boil	36
- AutoNewsAdmin	36
- AutoNewspaperAdmin	34
- Pixelated_Piracy	34
- InfiniTitans	32
- sweetestdeth	30
- bitcoinwallpaper2	30
- majortom106	30
- juanathanluis	30
- Rednaxela117	28
- reignkaera	28
- GRJR721	26
- mtcapri	26

- A list with most 24 contributed authors was made.
- Checked for the most negative comments users.
- The most negatively commented users are  
'5th\_Law\_of\_Robotics', 'AutoModerator', 'AutoNewsAdmin', 'AutoNewspaperAdmin',  
'CelebBattleVoteBot', 'Dannig178', 'DerHander', 'GRJR721', 'InfiniTitans',  
'Pixelated\_Piracy', 'Rednaxela117', 'RuleIV', 'SakuOtaku', 'Sovetika',  
'bitcoinwallpaper2', 'bufedad', 'guac\_boil', 'juanathanluis', 'majortom106',  
'mtcapri', 'newsfeedmedia', 'reignkaera', 'spells010', 'sweetestdeth'
- The value counts of the users with the most contributions:  
**has\_verified\_email**
  - True 24
- The value counts of the users with the most contributions: **is\_mod**
  - True 17
  - False 7

---

<sup>5</sup> [Moderator](#): A moderator is just a regular redditor like you except with a few humble duties within a particular community

<sup>6</sup> [Gold](#) Reddit Gold was a premium membership, which allowed Reddit users a variety of additional features.

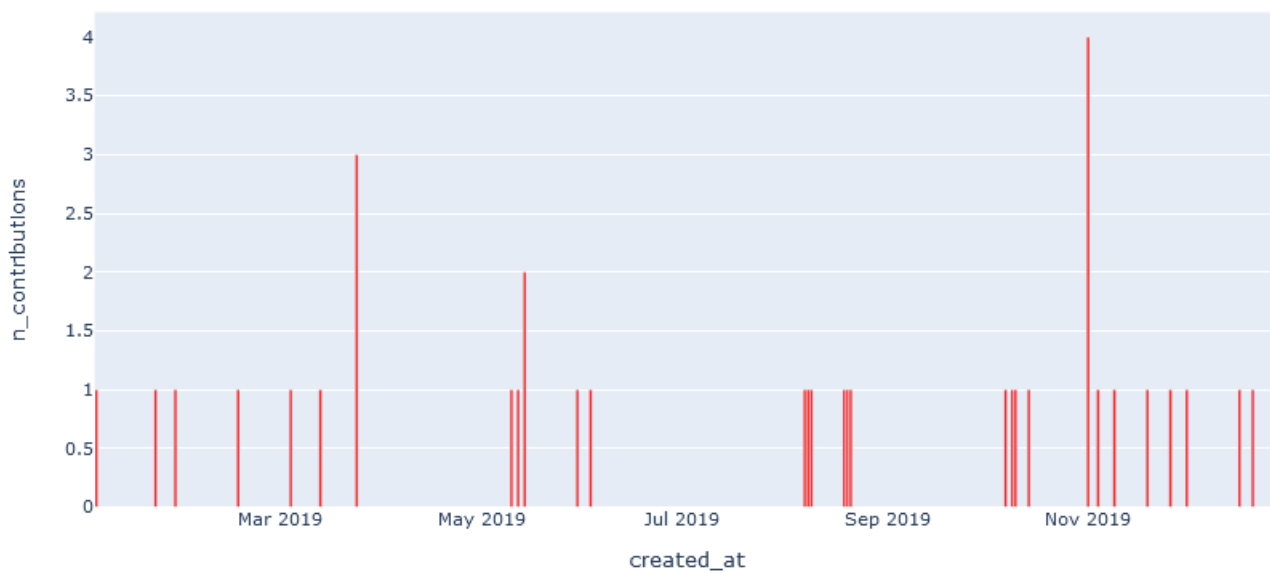
- The value counts of the users with the most contributions: **is\_gold**
- False      20
- True        4
  
- The value counts of the users with the most contributions: **is\_banned**
- False      23
- True        1
  
- **The min of comment\_karma**      0.0
- **The max of comment\_karma**      155384.0
- **The mean of comment\_karma**    23995.83
- **The median of comment\_karma** 23995.83
- **The min of link\_karma**          1
- **The max of link\_karma**          982410.0
- **The mean of link\_karma**        133475.13
- **The median of link\_karma**     133475.13
  
- The value counts of the users with the most contributions:
- **banned\_unverified**
- others      23
- banned      1
  
- The value counts of the users with the most contributions: **creation\_year**
- others      16
- 2019        4
- 2018        3
- banned      1

## Investigate the text column

### Lets first check for the users using the word 'f\*ck

- This word is repeated 1254 times.
- 1 submission with f\*ck\_amber\_heard, 37 submissions contains f\*ck word.

The number of submissions with the word "F\*CK" in 2019



- Top users contributor with this word:

- -banned-	258
- juanathanluis	11
- armoured_bobandi	9
- Ryggg95	7
- SexBoi6969	6
- pervaccount123	5
- xRisingSunx	5
- ForensicatingEdibles	5
- flight fight1	5
- funlover24	4

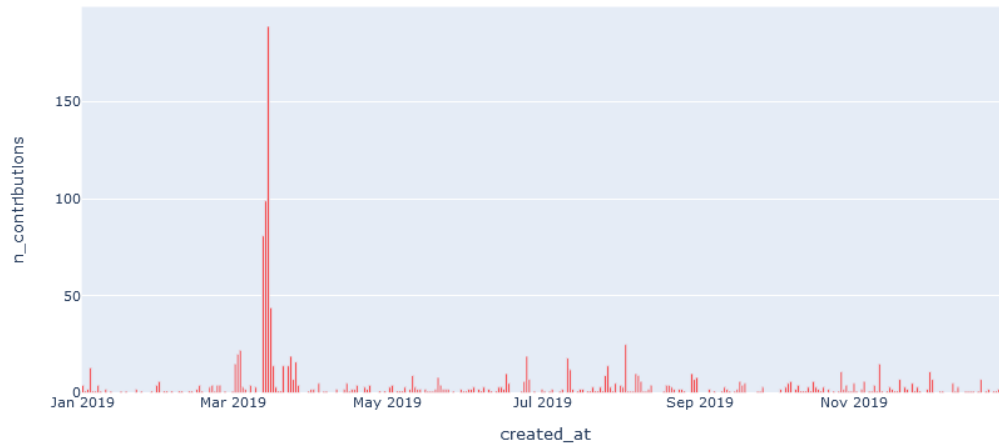
- Top subreddits:

- r/movies	198
- r/JerkOffToCelebs	185
- r/CelebEconomy	140
- r/entertainment	138
- r/MensRights	82
- r/pussypassdenied	61
- r/worldnews	60
- r/television	31
- r/WatchItForThePlot	26
- r/gentlemanboners	25

- Top dates:

- 2019-03-15	189
- 2019-03-14	99
- 2019-03-13	81
- 2019-03-16	44
- 2019-08-03	25
- 2019-03-04	22
- 2019-03-03	20
- 2019-06-25	19
- 2019-03-24	19
- 2019-07-11	18

The number of "F\*CK" contributions in 2019



	created_at	n_contributions
43	2019-03-15	189
42	2019-03-14	99
41	2019-03-13	81
44	2019-03-16	44
143	2019-08-03	25
36	2019-03-04	22
35	2019-03-03	20
51	2019-03-24	19
114	2019-06-25	19
123	2019-07-11	18

## Juanathanluis

used the word f\*ck 11 times

## Negative Comments

- Made 30 contributions in those subreddits
  - r/CelebEconomy 13
  - r/pickoneceleb 8
  - r/TrueFMK 7
  - r/CelebAssPussyMouth 1
  - r/JerkOffToCelebs 1

	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
20670	juanathanluis	True	True	False	False	24502.0	92265.0	2015-12-05 21:18:19	others	others



## Check the number of text words

```
Amber Heard
1832
[deleted]
645
[removed]
233
**Thank you for your submission. Make sure to follow the rules.**\n\n**Don't forget to follow us on [Instagram] (https://www.instagram.com/jotoccelebs/) and [join our Discord Server] (https://discord.gg/PrRfWsa)!**\n\n\n*I am a bot, and this action was performed automatically. Please [contact the moderators of this subreddit] (/message/compose/?to=/r/JerkOffToCelebs) if you have any questions or concerns.*
64
Remember to keep comments civil.\n\n**[Follow our Instagram page] (https://www.instagram.com/celebtag/) for more celebrity content and daily top posts!**\n\n\n*I am a bot, and this action was performed automatically. Please [contact the moderators of this subreddit] (/message/compose/?to=/r/Celebhub) if you have any questions or concerns.*
59
**Thank you for your submission. Make sure to follow the rules.**\n\n**Check out our [FAP LOTTERY!] (https://jerkofftocelebs.com/)**\n\n\n**Don't forget to follow us on [Instagram] (https://www.instagram.com/jotoccelebs/) and [join our Discord Server] (https://discord.gg/PrRfWsa)!**\n\n\n*I am a bot, and this action was performed
```

- Most contributions were deleted.
- The other contribution has 'Amber Heard' which is logical.
- FMK, FKM, MFK, KFM repeated a lot!
- There are a lot of weird texts repeated a lot like:
  - FMK.
  - FKM.
  - MFK.
  - KFM.
- "Well I'm going to start doing preliminary emails to voice my displeasure that a DV perp is even coming back to make more millions.\n\nAnd I won't be watching that shit or buying it either\n\nEdit: ok so this is who I emailed\n\njessica.zacholl@warnerbros.com\n\nShe's in WB's Media and Press Dept.\n\nAnd this is what I said\n\nSubject: Amber Heard in Aquaman 2, why?\n\nJust curious why a studio such as WB would employ a domestic violence perpetrator for their big release? I've been told Hollywood is progressive, but apparently you can abuse your spouse and that's ok? Well I will not be seeing this movie. I get so tired of the talking about how domestic violence is bad, but it seems all of the movie industry just sits silent. #MeToo indeed.

### Amber Heard

- **4641 contributions on those subreddits:**
  - r/Celebs 532
  - r/gentlemanboners 317
  - r/JerkOffToCelebs 271
  - r/Celebhub 222
  - r/CelebBattles 140
  - ...

From those **authors:**

- -banned- 1396
- spells010 80
- Dannig178 67

- newsfeedmedia 62
- CelebBattleVoteBot 55
- Sovetika 48
- AutoNewsAdmin 36
- AutoNewspaperAdmin 34
- DerHander 30
- bitcoinwallpaper2 30

	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
13888	Dannig178	True	True	True	False	2765.0	982410.0	2014-05-14 14:35:40	others	others
50713	spells010	True	False	False	False	0.0	1.0	2019-07-31 04:00:33	others	2019

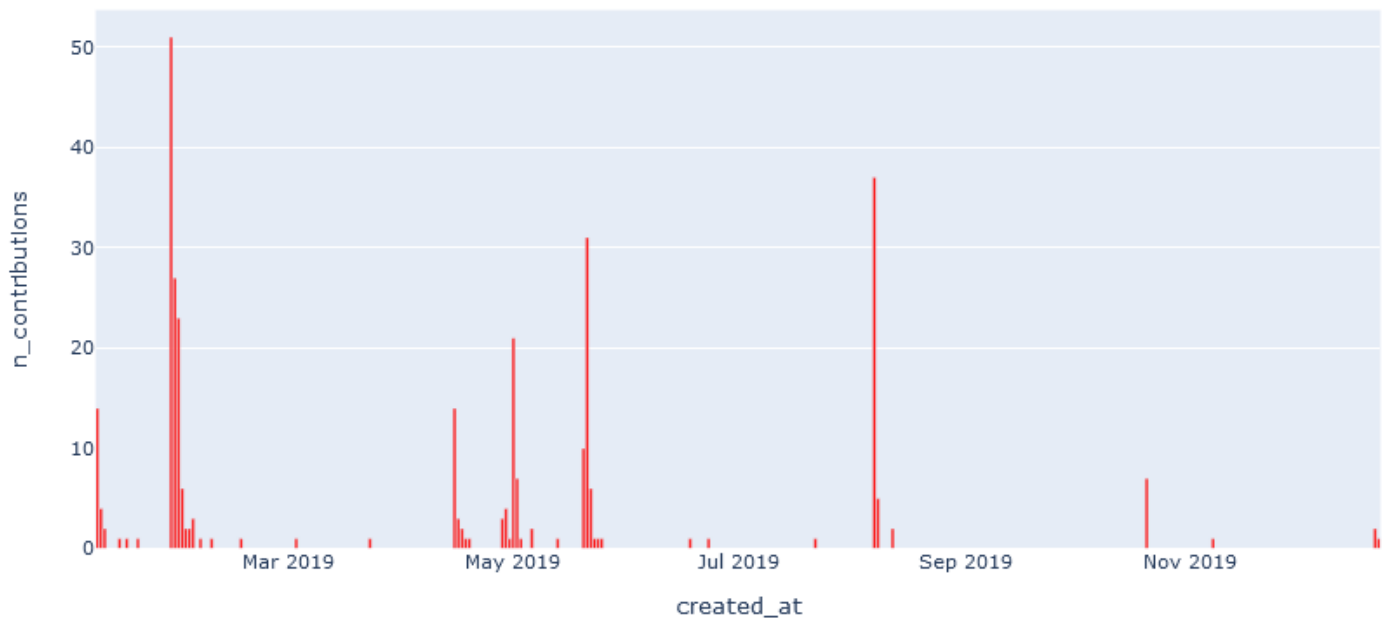
### FMK, FKM, MFK, KFM

#### - **311 contributions** on **those subreddits:**

- -banned- 23
- AutoModerator 21
- FMKBot 11
- naedthrowaway 6
- throwedrollss 6
- billysuperduper 6
- PM\_ME\_UR\_PIG-TAILS 5
- Narfle\_TheGarthok 5
- MerlinRD 5
- herkalurk 5
- ...

	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
4432	AutoModerator	True	True	True	False	1000.0	1000.0	2012-01-05 05:24:28	others	others
32799	FMKBot	True	True	False	False	59182.0	1.0	2017-11-09 15:49:31	others	others

The number of "FMK, KFM ..etc" contributions in 2019



#### F\*ck amber heard

##### - **32 contributions** on **those subreddits:**

- r/JerkOffToCelebs 11
- r/movies 5
- r/MensRights 4
- r/nsfwcelebs 2
- r/television 2
- ...

##### From those **authors:**

- -banned- 10
- ADM86 2
- RossSkyWalkerr 2
- ...

#### [Aquaman] Amber Heard

##### - **115 contributions** on **those subreddits:**

- r/BitcoinWallpaper 44
- r/EcuadorNoticias 11
- r/JerkOffToCelebs 6
- r/movies 6
- r/AskReddit 5
- r/DC\_Cinematic 5
- r/gentlemanboners 4
- r/entertainment 4
- r/television 3
- r/TwoXChromosomes 2

- ...

From those **authors**:

- bitcoinwallpaper2 26
- -banned- 14
- spastorm20 11
- bitcoinwallpaper 10
- bitcoinwallpaper3 7
- i\_am\_leatherface 3
- bufedad 3
- Ximienlum 1
- NorseGodLoki0411 1
- xrnzaasPL 1

**r/BitcoinWallpaper** top subreddit with 44 contributions form 115

**bitcoinwallpaper2** this user made 26 submissions with the same text **[Aquaman] Amber Heard on those dates**

- 2019-10-24 6
- 2019-10-15 6
- 2019-10-19 6
- 2019-10-22 6
- 2019-10-12 1
- 2019-10-14 1

user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
bitcoinwallpaper2	True	True	False	False	0.0	14.0	2019-10-11 19:30:50	others	2019

Johnny Depp was abused by ex-wife Amber Heard, new evidence shows

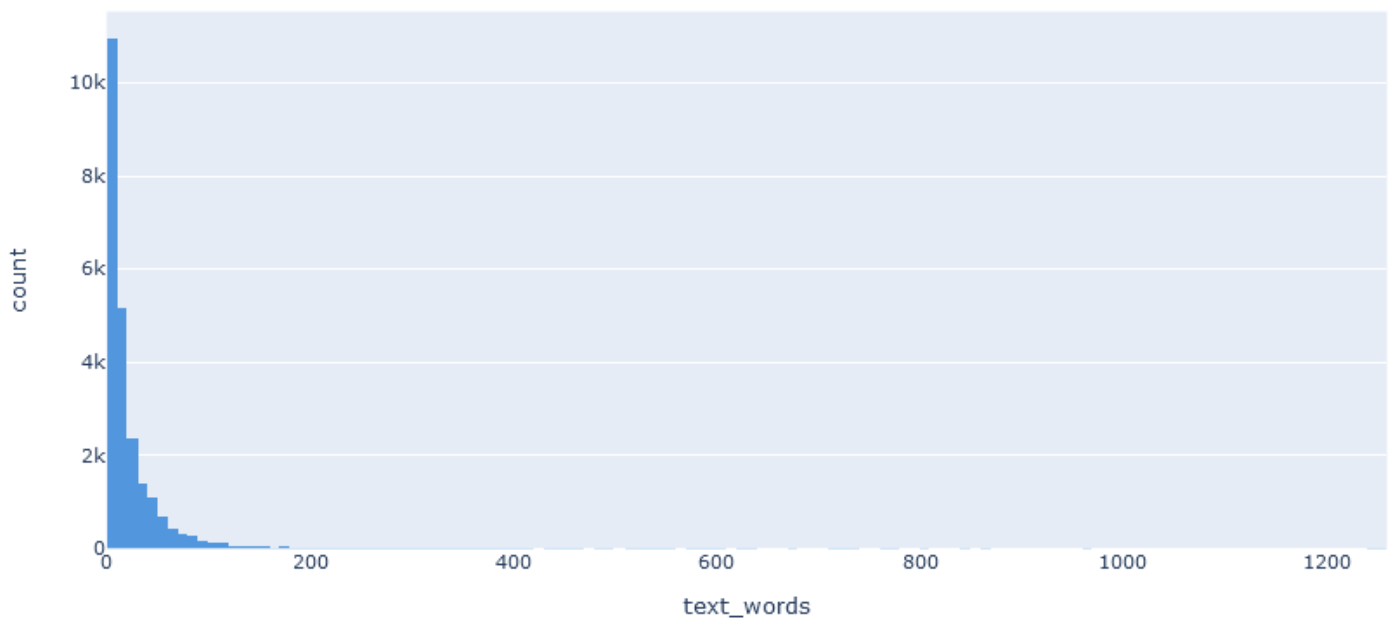
- **154 contributions.**

What did she hear?

- **3 contributions.**
- Authors:
  - -TheExtraMile- 1
  - cuacuacuac 1
  - mattreyu 1
- Subreddits:
  - r/goddesses 1
  - r/celebnsfw 1
  - r/geekboners 1

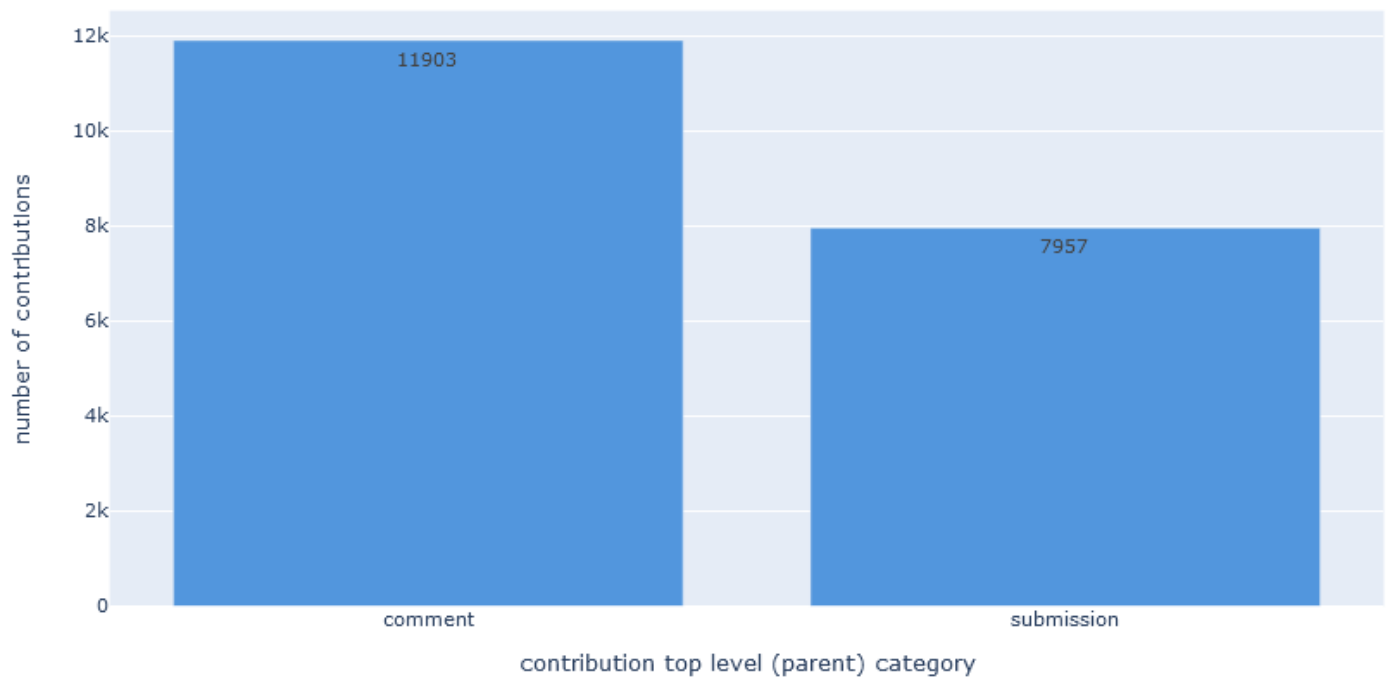
## Check the number of text words

number of words in each contribution



## Reddit Comments

Comment or Submission (Top Level of Contribution "Parent")



## Reddit Submission Data

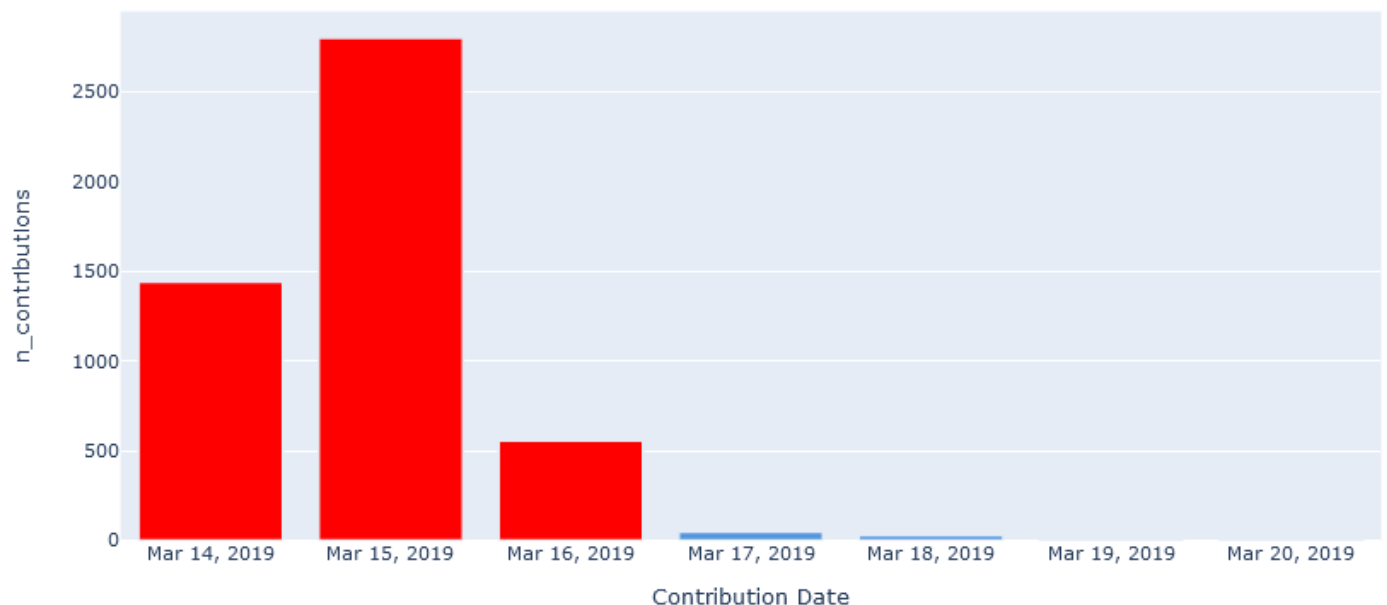
Investigating the Submission Text (Submissions with the most comments and replies)

- johnny_depp_was_abused_by_exwife_amber_heard_new	4958
- amber_heard	4308
- DC_Cinematic	784
- johnny_depp_files_50_million_defamation_lawsuit	652
- report_james_marsden_amber_heard_in_negotiations	469
- the_naked_truth_about_johnny_depp_case_and_what	417
- johnny_depps_50m_defamation_suit_against_amber	401
- johnny_depp_fans_are_pushing_hard_to_get_amber	319
- johnny_depp_files_new_legal_docs_claiming_proof	293
- petition_to_remove_accused_dv_perpetrator_amber	282

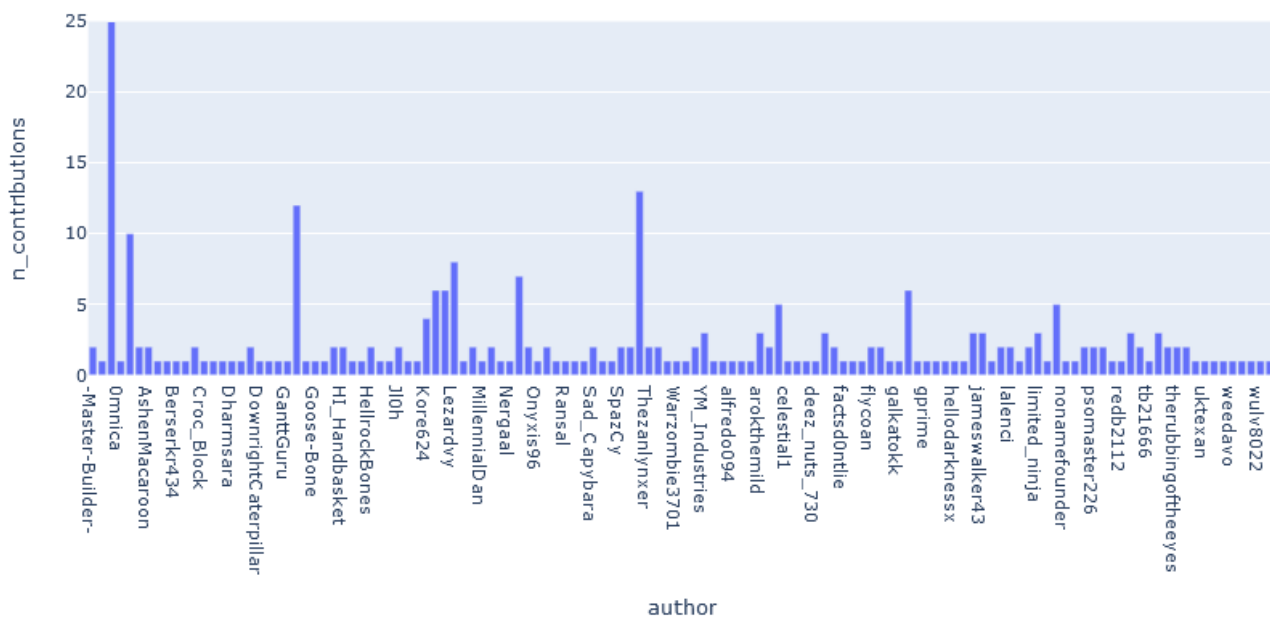
*Johnny\_depp\_was\_abused\_by\_exwife\_amber\_heard\_new*

- 34 submissions with 4958 comments.

The number of contributions/date on these submissions



The number of contributions per author on these submissions



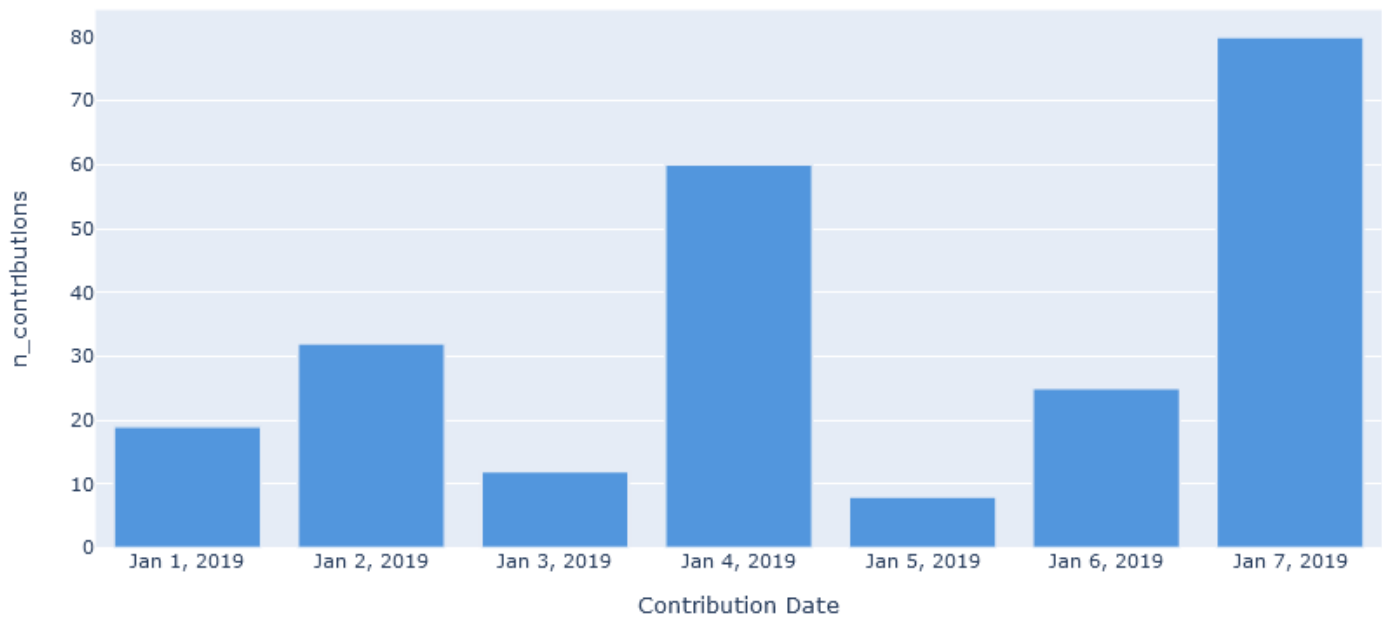
	author	n_contributions
3	-banned-	778
1674	guac_boi1	36
893	Pixelated_Piracy	34
1877	majortom106	29
514	HawkoDarkness	25
1061	Slyndrr	21
561	Ignorant_Slut	19
176	BrobaFett115	19
378	EarlyEndTimes	16
2092	sajeebooty	16

user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
Pixelated_Piracy	True	False	False	False	25092.0	257.0	2014-04-25 07:16:31	others	others
guac_boi1	True	False	False	False	56749.0	6786.0	2017-01-09 23:31:59	others	others
major tom106	True	False	False	False	26689.0	8313.0	2017-01-22 22:02:53	others	others

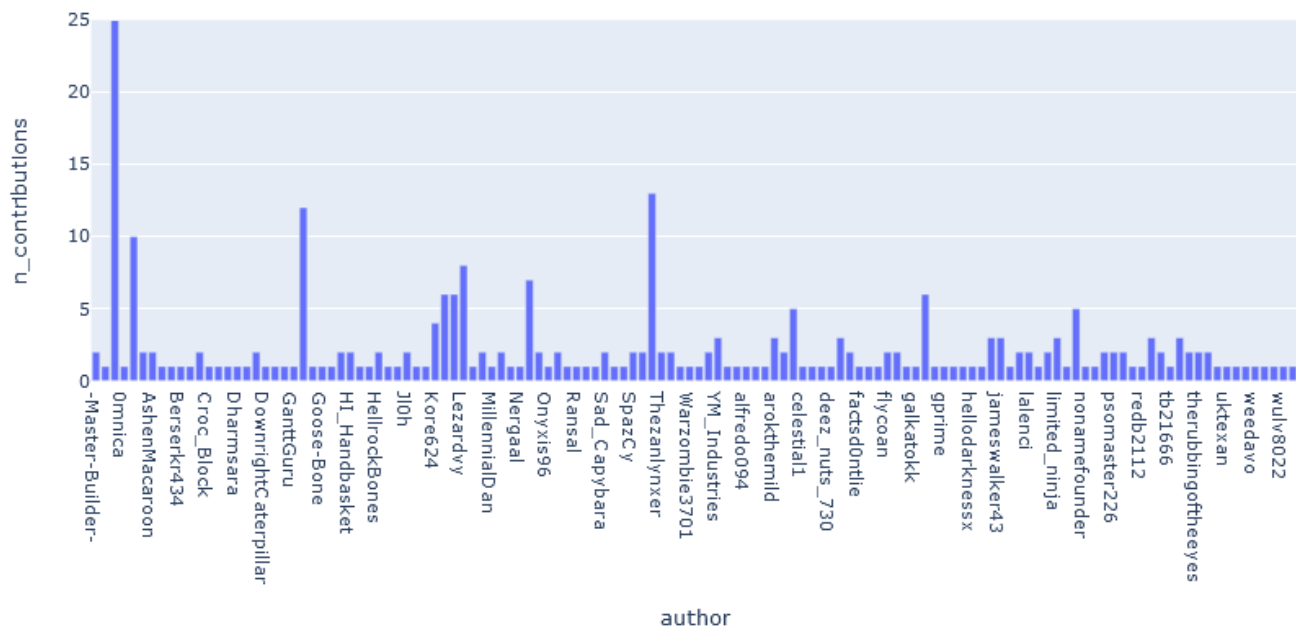
*amber\_heard*

- 1717 submissions with 4308 comments.

The number of contributions/date on these submissions



The number of contributions per author on these submissions



	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
4432	AutoModerator		True	True	True	False	1000.0	1000.0	2012-01-05 05:24:28	others others
13888	Dannig178		True	True	True	False	2765.0	982410.0	2014-05-14 14:35:40	others others
16497	RuleIV		True	True	False	False	12457.0	860.0	2014-12-21 09:43:04	others others

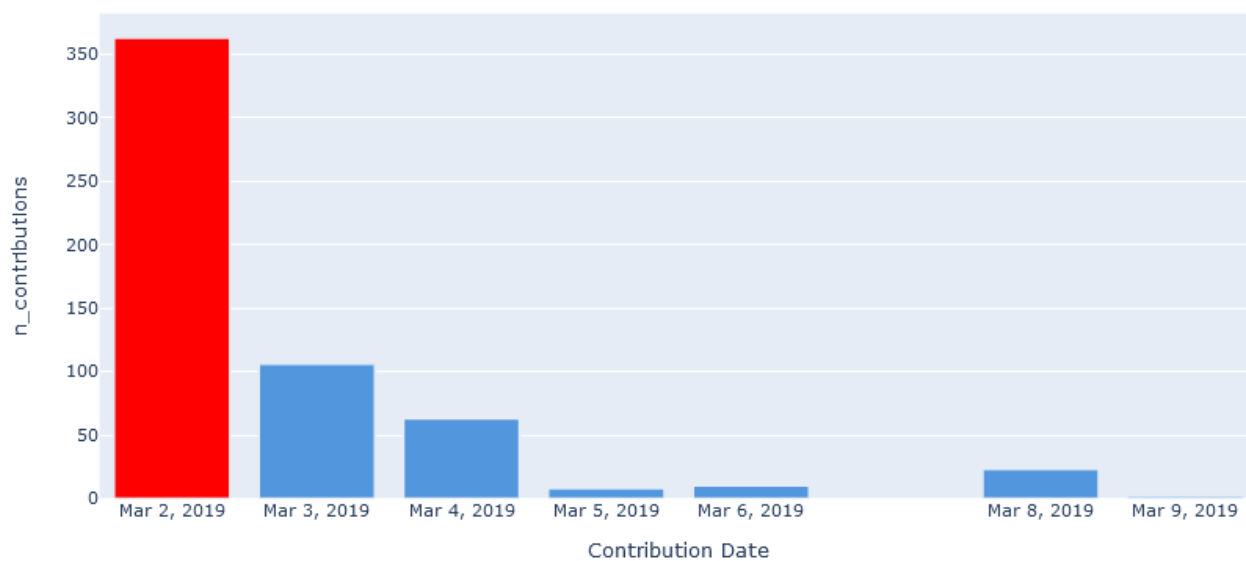


	author	n_contributions
4	-banned-	1066
84	AutoModerator	116
202	Dannig178	47
705	RuleIV	39
218	DerHander	30
683	Rednaxela117	28
394	InfiniTitans	26
1263	imsrikant	20
1159	emilyguy	20
661	Queen1110	19

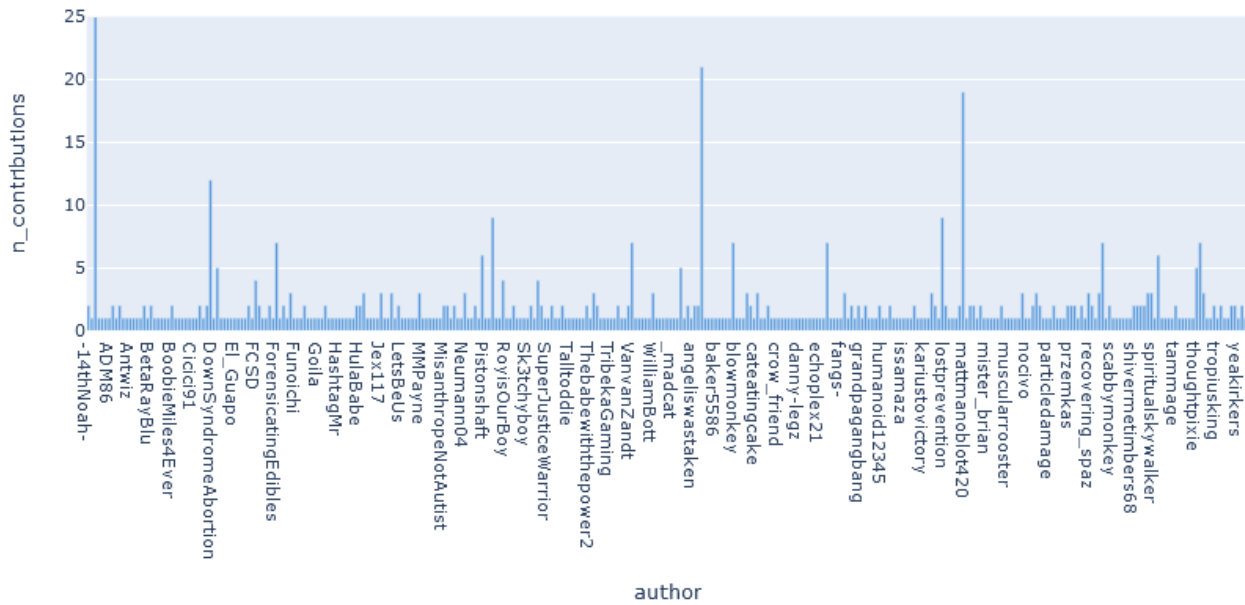
*johnny\_depp\_files\_50\_million\_defamation\_lawsuit*

- 10 submissions with 652 comments.

The number of contributions/date on these submissions



The number of contributions per author on these submissions



- Top contributed users:

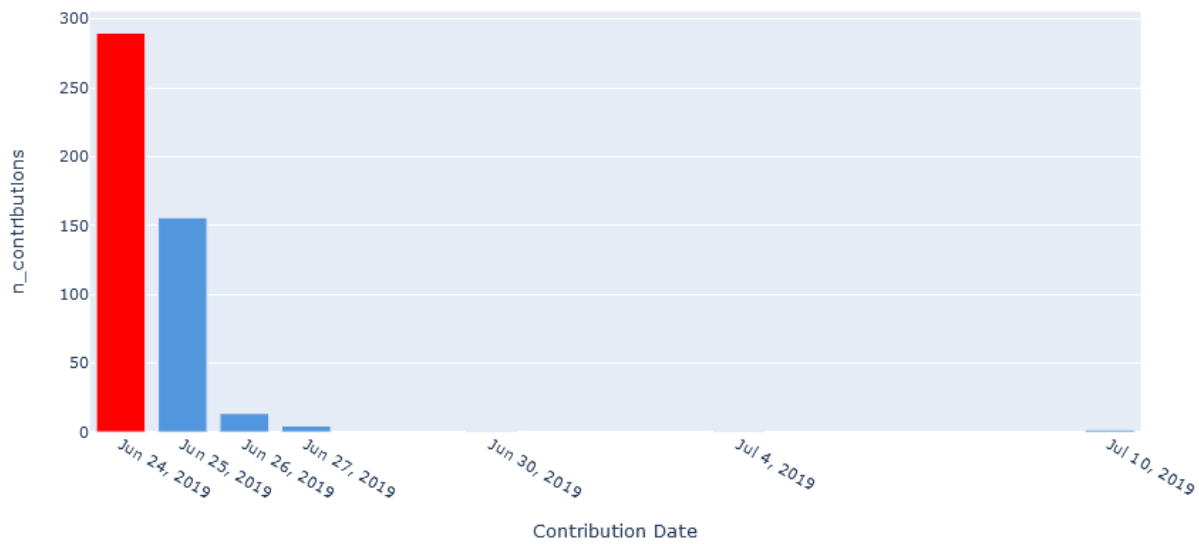
	author	n_contributions
2	-banned-	83
176	armoured_bobandi	21
251	masksnjunk	19
35	Doctah__Wahwee	12
116	PromiscuousMNCpl	9
245	littlelionicrless	9
156	VanvanZandt	7
54	ForensicatingEdibles	7
185	bitter_truth_	7
291	sammythemc	7

user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
masksnjunk	True	False	False	False	21553.0	12571.0	2013-10-27 17:21:08	others	others
Doctah__Wahwee	True	False	False	False	88115.0	663.0	2016-01-31 19:20:36	others	others
armoured_bobandi	True	False	False	False	74298.0	844.0	2016-06-01 23:45:20	others	others

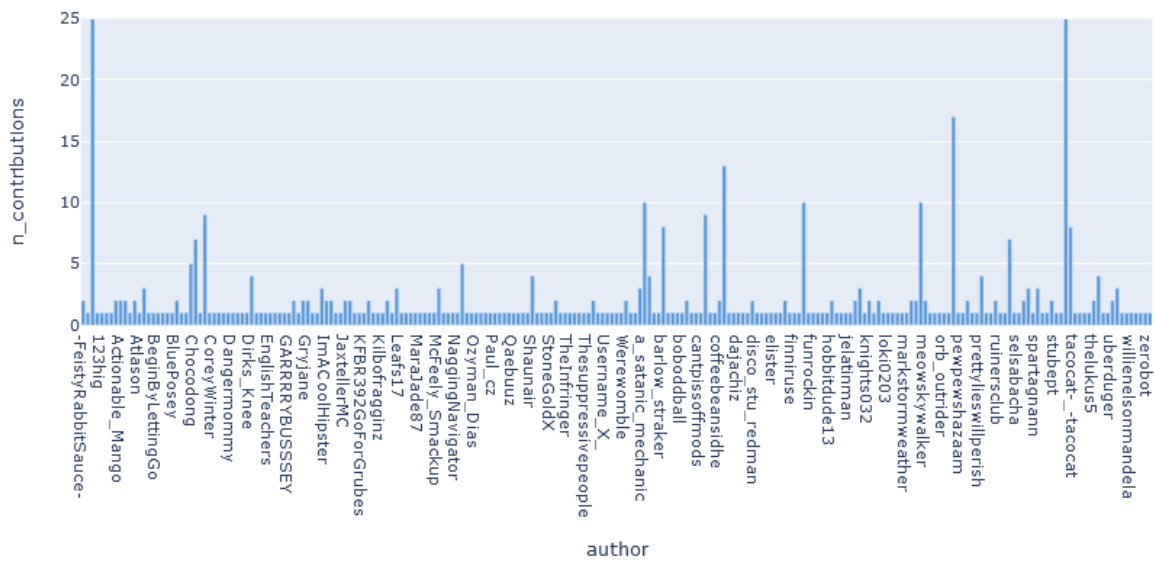
*johnny\_depp\_files\_50\_million\_defamation\_lawsuit*

- 2 submissions with 469 comments.

The number of contributions/date on these submissions



The number of contributions per author on these submissions



- Top contributed users:

	author	n_contributions
2	-banned-	39
210	sweetestdeth	30
186	paperbackgarbage	17
137	col-fancypants	13
120	a_satanic_mechanic	10
154	foul_dwimmerlaik	10
179	mentor13	10
133	cchrist4545	9
26	ClementineCarson	9
124	barlow_straker	8

user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
paperbackgarbage	True	False	False	False	199220.0	3282.0	2014-11-12 23:37:57	others	others
col-fancypants	True	True	False	False	290619.0	16547.0	2014-12-16 21:35:57	others	others
sweetestdeth	True	False	False	False	33784.0	39792.0	2016-08-21 19:54:58	others	others

*The\_naked\_truth\_about\_johnny\_depp\_case\_and\_what*

- 2 submissions with 417 comments.
- Submissions authors:

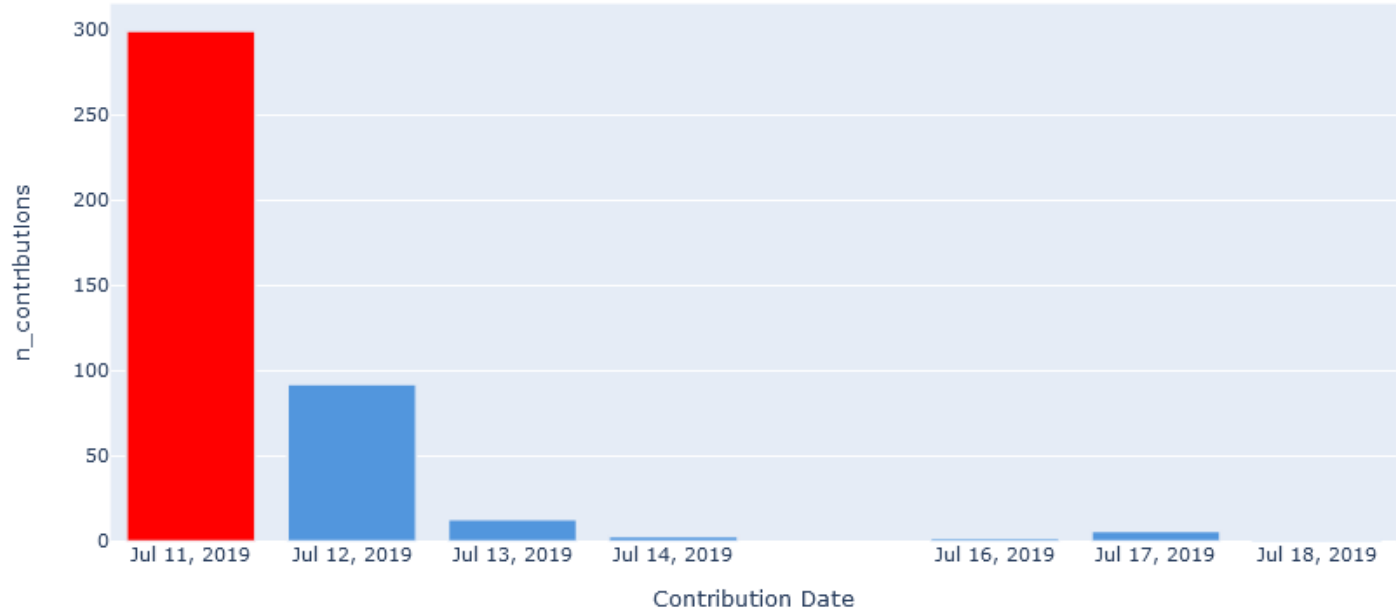
user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
swiet	True	False	False	False	8739.0	1208944.0	2016-07-03 11:18:49	others	others
reereen	False	False	False	False	933.0	34090.0	2018-10-29 08:29:00	unverified	2018

- Top contributed users:

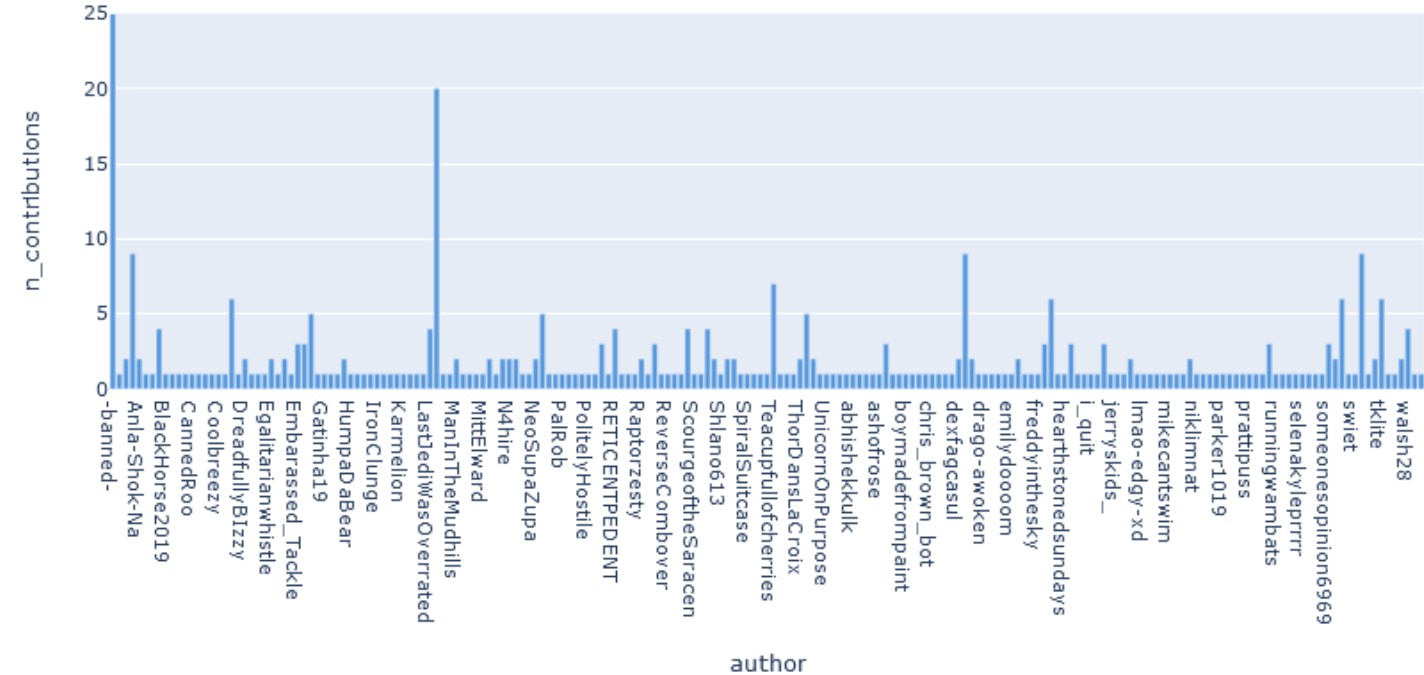
	author	n_contributions
0	-banned-	74
49	Lily_Roza	20
189	the8track	9
3	Actuallyconsistent	9
129	dj1041	9
100	Teacupfullofcherries	7
18	CypherZ3R0	6
142	grumpieroldman	6
192	tklite	6
186	sterob	6

user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
Lily_Roza	True	False	False	False	47951.0	202.0	2016-03-08 16:25:41	others	others

The number of contributions/date on these submissions



The number of contributions per author on these submissions



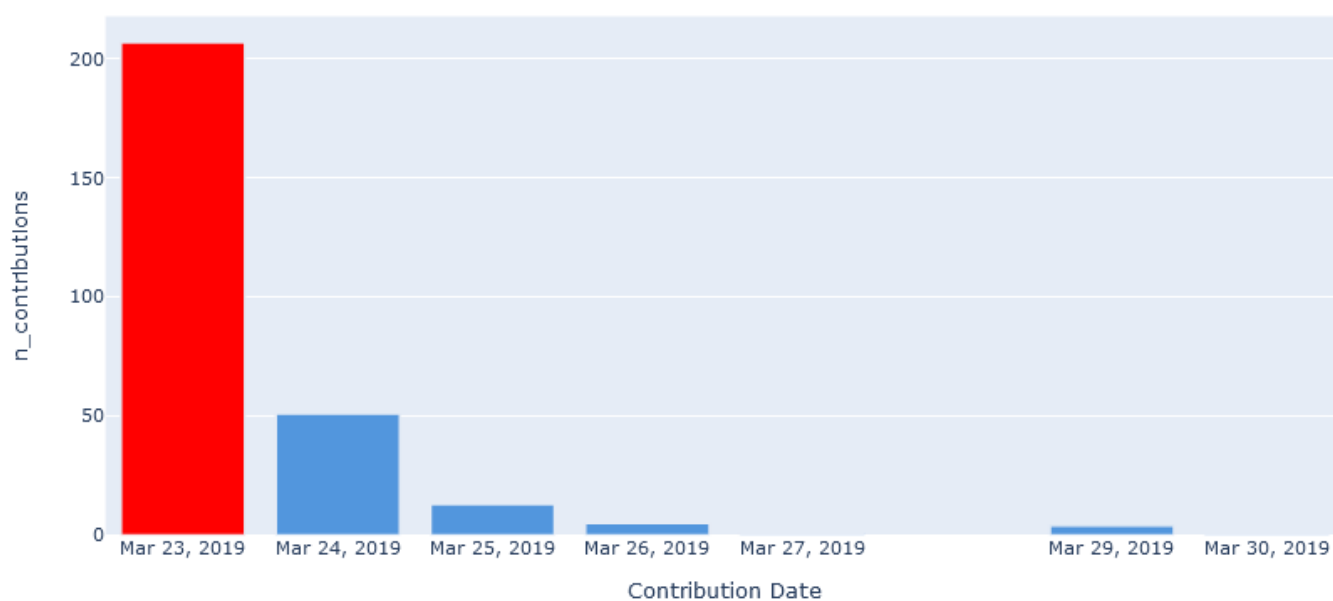
## *petition\_to\_remove\_accused\_dv\_perpetrator\_amber*

- 4 submissions with 282 comments.

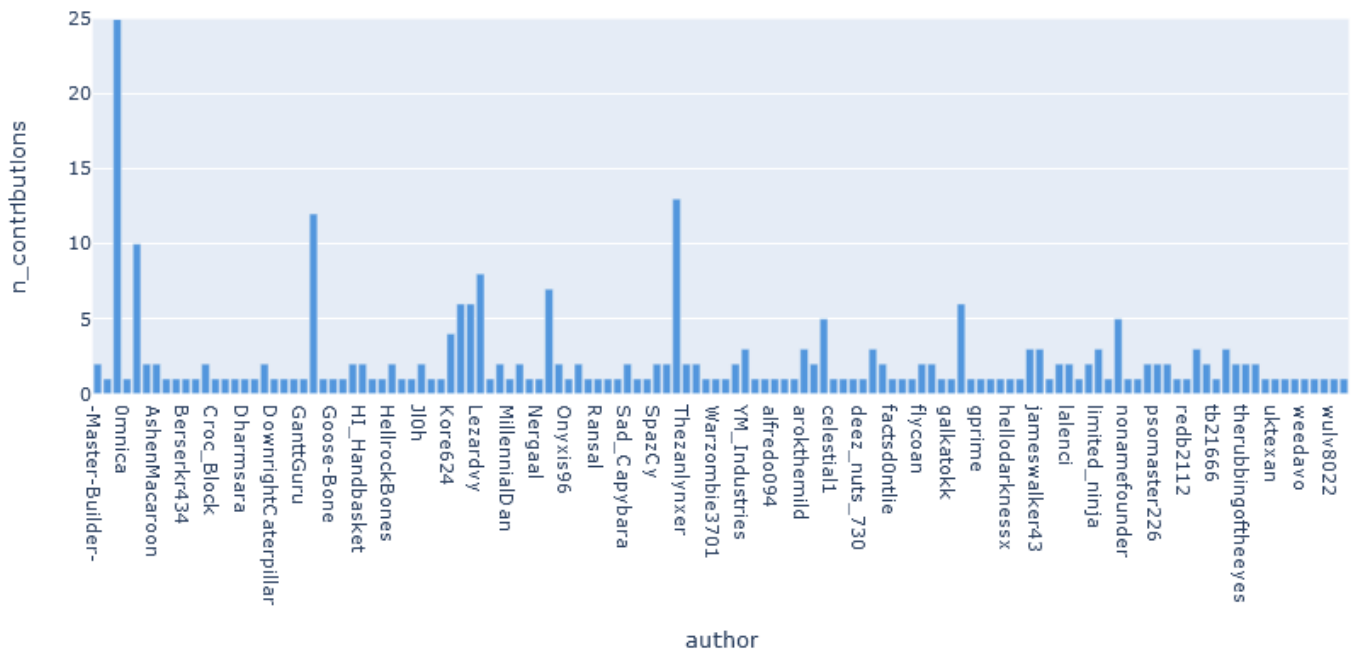
- Submissions authors:

user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
PeterWrightMGTOW	True	True	False	False	311.0	22982.0	2014-04-15 11:55:34	others	others
5th_Law_of_Robotics	True	True	True	True	NaN	NaN	NaT	banned	banned

The number of contributions/date on these submissions



The number of contributions per author on these submissions



- Top contributed users

	author	n_contributions
2	-banned-	35
59	ThePigmanAgain	13
22	Gingerchaun	12
4	5th_Law_of_Robotics	10
39	Lezardvy	8
46	Ninja_Arena	7
37	Kvika666	6
38	Leplady	6
88	gellish	6
104	mgtowolf	5

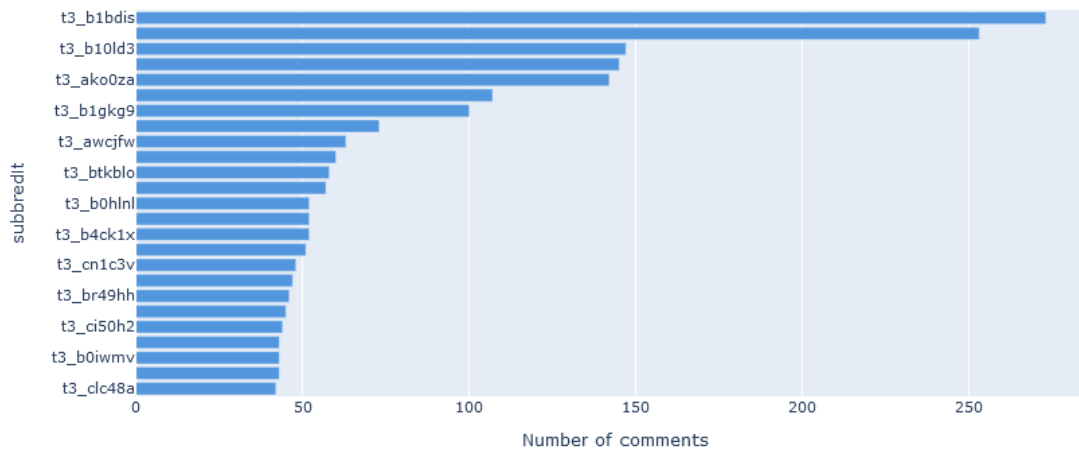
user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
ThePigmanAgain	True	False	False	False	72060.0	84908.0	2013-09-07 00:25:23	others	others
Gingerchaun	True	False	False	False	153991.0	1.0	2014-04-27 03:23:25	others	others
5th_Law_of_Robotics	True	True	True	True	NaN	NaN	NaT	banned	banned

Investigating the submissions with most comments

- t3\_b1bdis 273
- t3\_b1ccsj 253

- t3\_b10ld3 147
- t3\_bn6sot 145
- t3\_ako0za 142

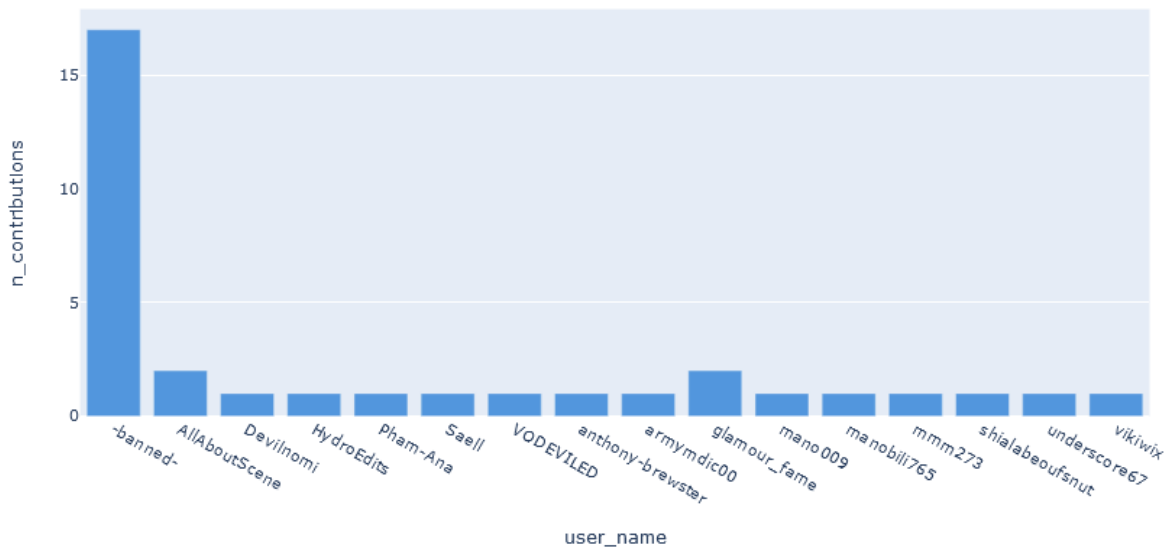
submissions with most comments (Top Level Comments)



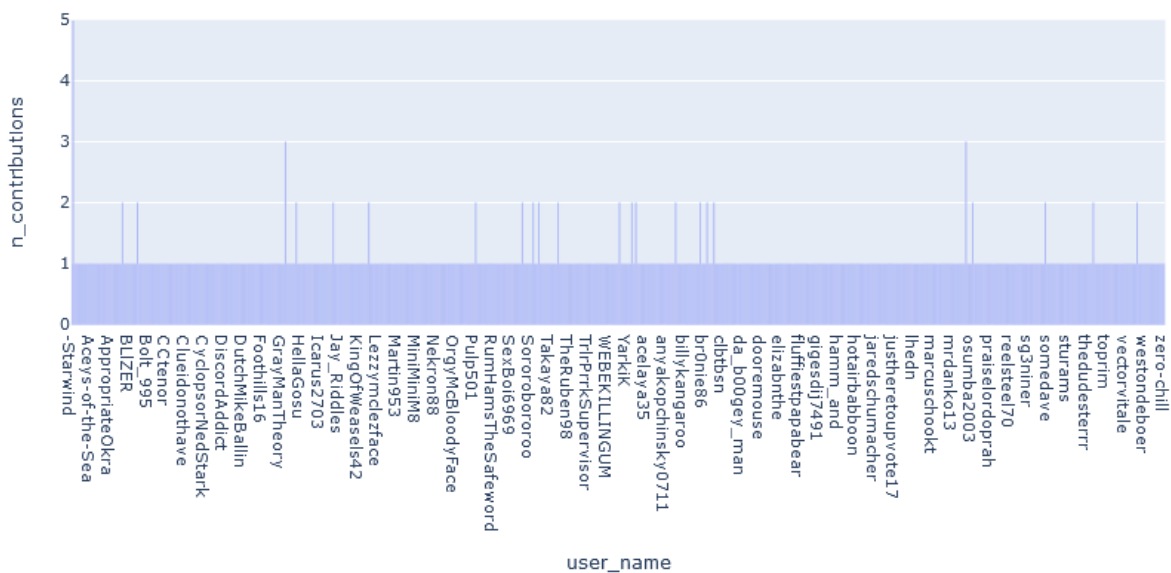


## Check the top 5 submissions in 2019

The number comments per author on these submissions



The number of parent comments per author on these submissions



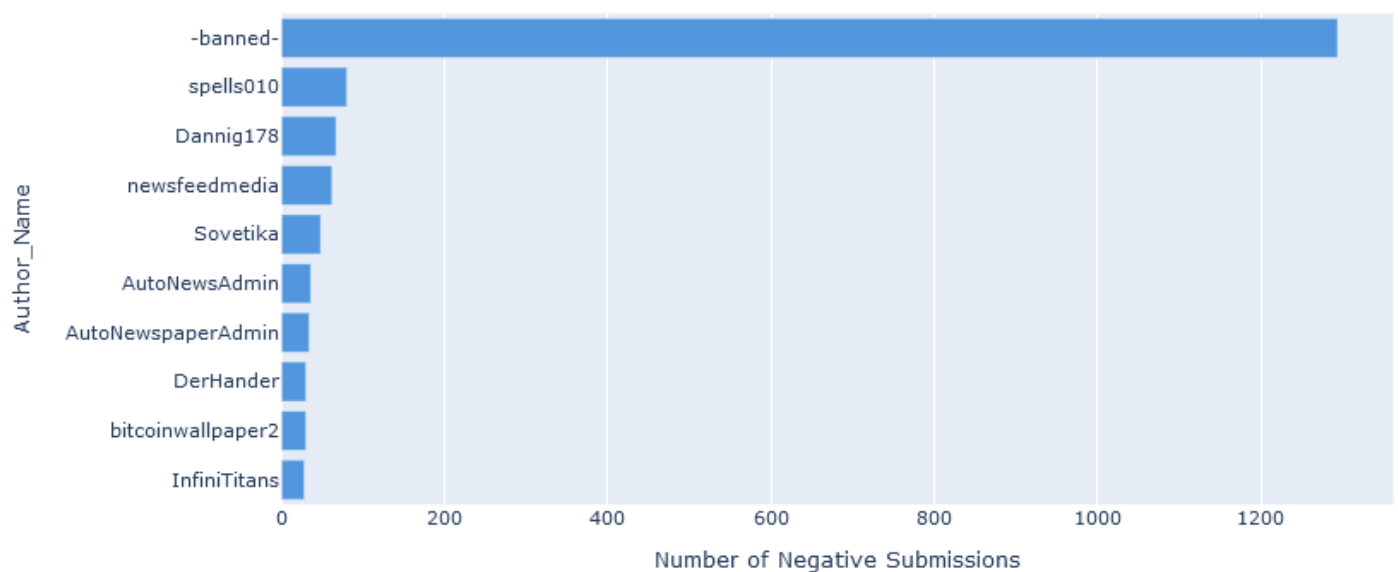
	user_name	n_contributions
1	-banned-	137
653	nodeofollie	3
156	GrubbyResponder	3
469	ch1nomachin3	2
746	theredditaccount4fun	2
...	...	...

- 14.27 % of contributions made by banned users.

## Investigating authors with the most submissions

- -banned-	1294
- spells010	80
- Dannig178	67
- newsfeedmedia	62
- Sovetika	48
- AutoNewsAdmin	36
- AutoNewspaperAdmin	34
- DerHandler	30
- bitcoinwallpaper2	30
- InfiniTitans	28

Authors with most Submissions



Check whether the users with the most submissions are mod, gold or having a verified email

- A list of 24 users was made:
  - 'spells010','Dannig178','newsfeedmedia','Sovetika','AutoNewsAdmin',  
'AutoNewspaperAdmin','DerHandler',  
'bitcoinwallpaper2','InfiniTitans',  
'Rednaxela117','jwmonty8889','GRJR721','Eagles1205',  
'amigokomashiangeljr','Queen1110','imsrikant','MuskieFan18',  
'FreedomNewsPolitics','LightUpStreets','emilyguy','-en-',  
'iDevice\_Help','LongClawww','88MPH1'
- The value counts of the users with the most contributions:  
**has\_verified\_email**
  - True 23
  - False 1

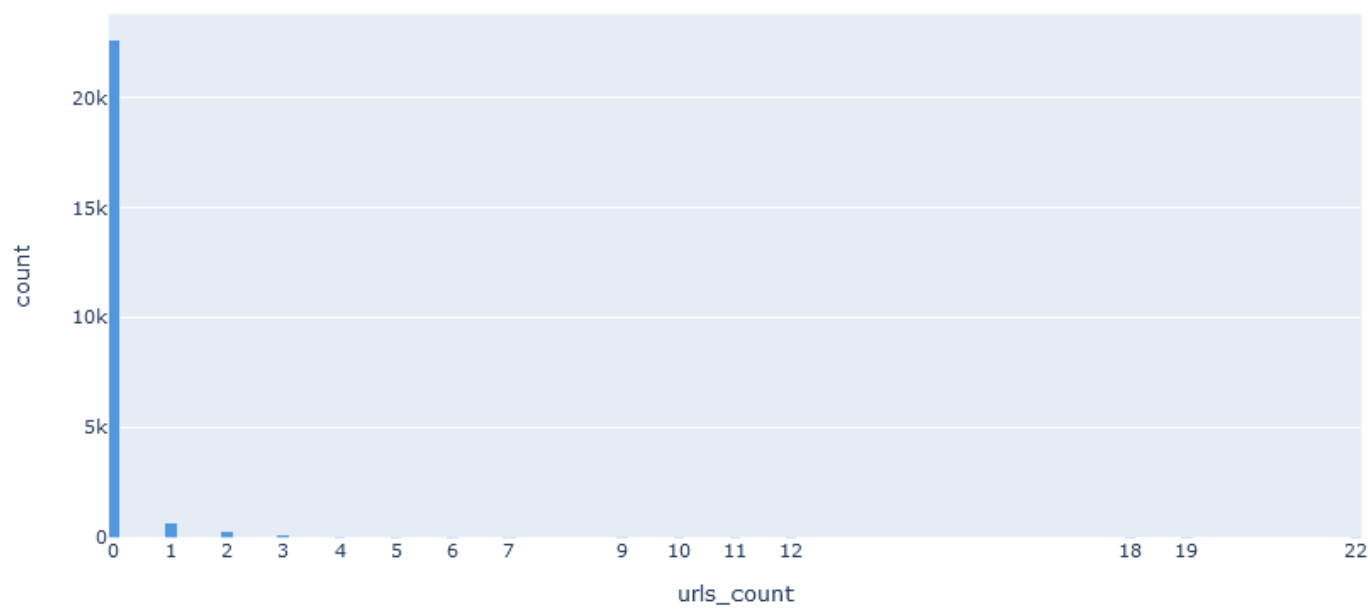
- The value counts of the users with the most contributions:  
**is\_mod**
  - True 19
  - False 5
  
- The value counts of the users with the most contributions:  
**is\_gold**
  - False 17
  - True 7
  
- The value counts of the users with the most contributions:  
**is\_banned**
  - False 19
  - True 5
  
- The min of comment\_karma 0.0
- The max of comment\_karma 26585.0
- The mean of comment\_karma 4481.74
- The median of comment\_karma 4481.74
- The min of link\_karma 1.0
- The max of link\_karma 1836704.0
- The mean of link\_karma 263380.79
- The median of link\_karma 263380.79
  
- The value counts of the users with the most contributions:  
**banned\_unverified**
  - others 18
  - banned 5
  - unverified 1
  
- The value counts of the users with the most contributions:  
**creation\_year**
  - others 12
  - banned 5
  - 2018 5
  - 2019 2

### Submission URLs

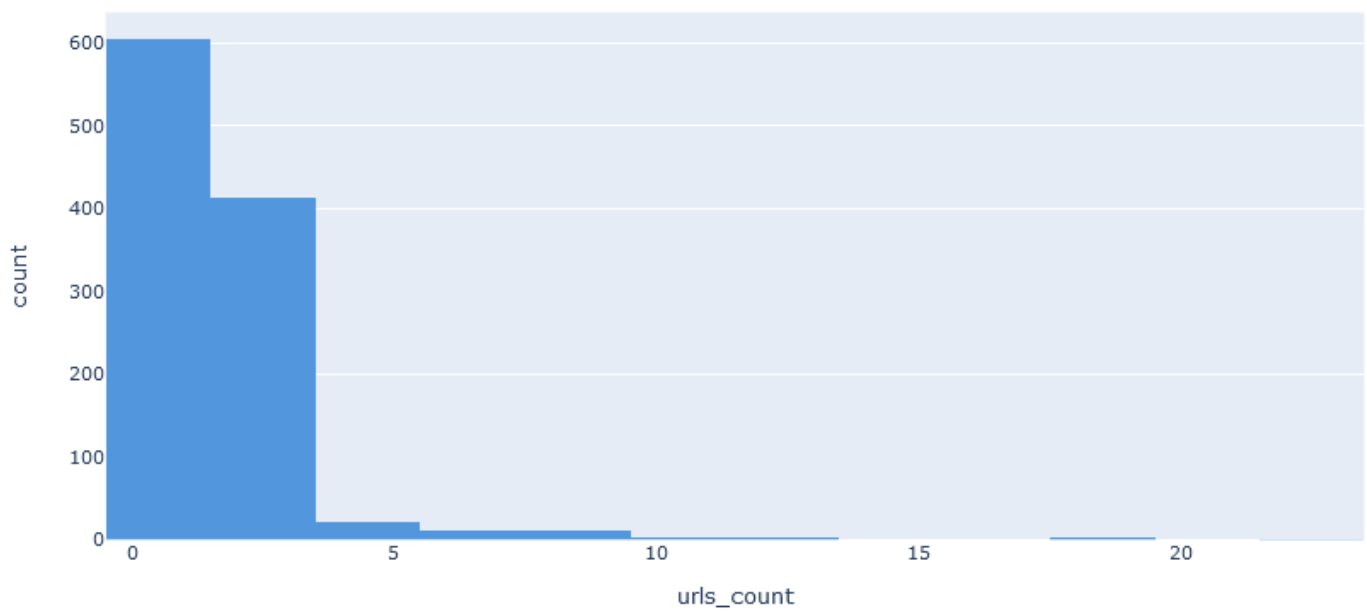
- 309 different combinations of urls

- [] 22608
- ['https://jerkofftocelebs.com', 'https://www.instagram.com', 'https://discord.gg'] 94
- ['https://www.instagram.com'] 88
- ['https://www.instagram.com', 'https://discord.gg'] 64
- ['https://www.reddit.com'] 63
- ...

Count of the number of URLS in each Contribution

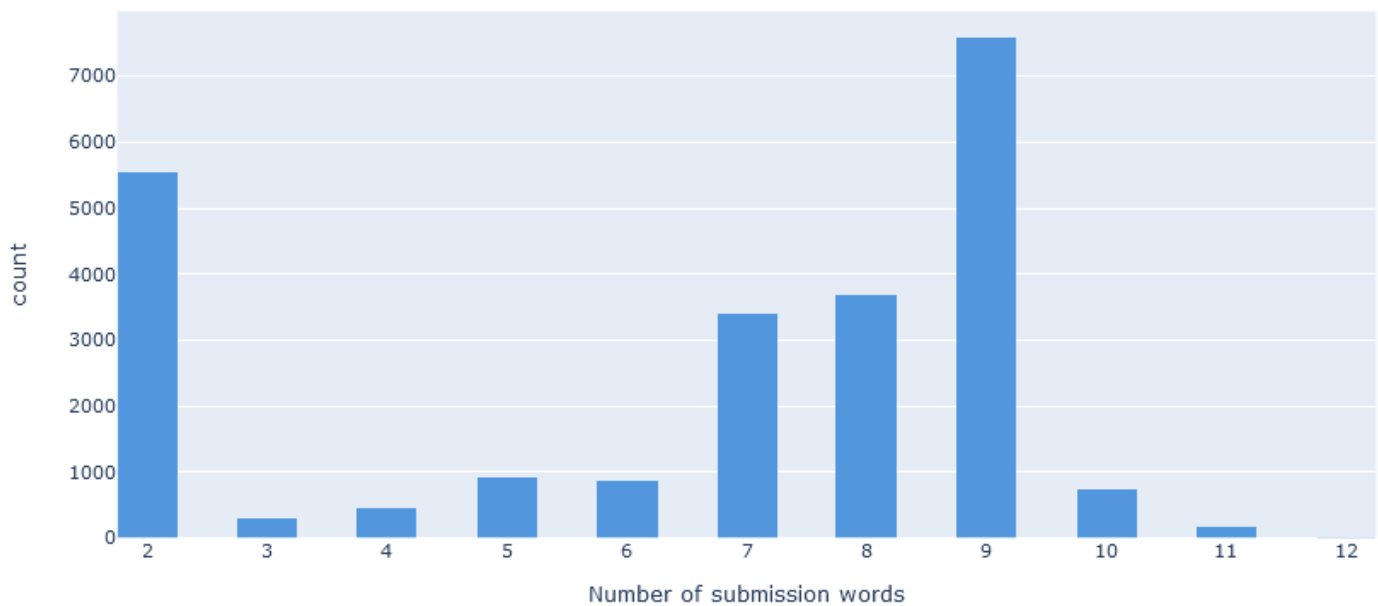


Count of the number of URLs in each Contribution



Check the number of submission text words

number of words in submission text



## Subreddits

### *Most used Subreddits*

- 535 subreddits used in 2019.
- Top subreddits

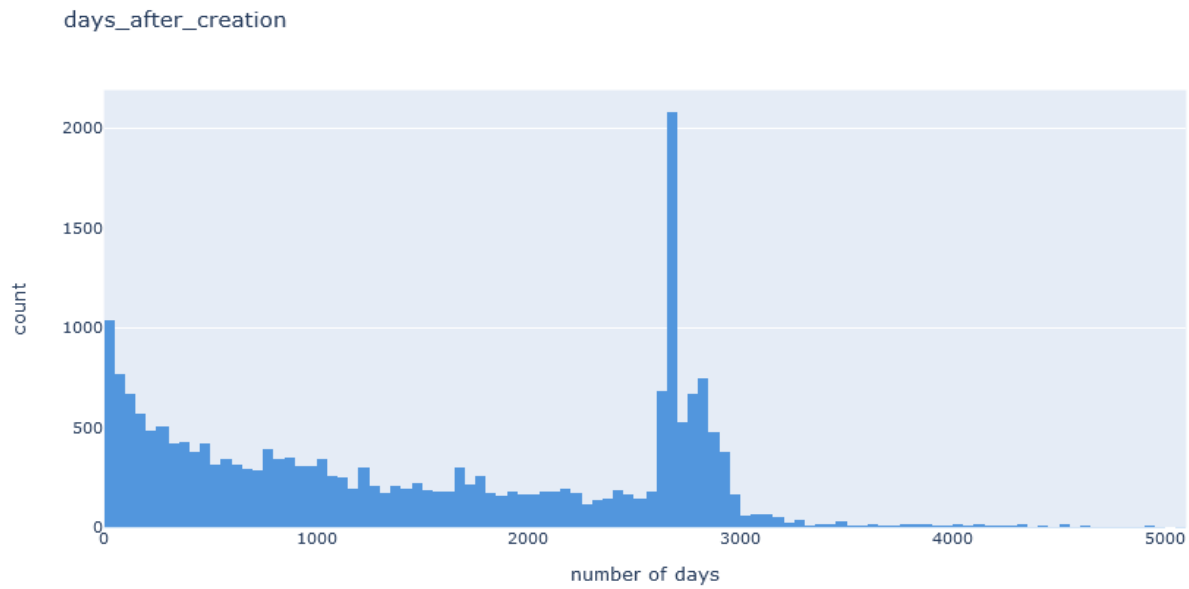
subreddit	
r/movies	3065
r/entertainment	2743
r/JerkOffToCelebs	1361
r/worldnews	1224
r/Celebs	1067
r/MensRights	1051
r/gentlemanboners	1034
r/DC_Cinematic	784
r/pussypassdenied	780
r/television	665

## Merged Users Data with Comments/Submissions Data

### Difference in time between creating the account and posting

In days..

- 2685.0      508
- 2684.0      297
- 2683.0      186
- 2686.0      179
- 2.0          104
- ...



### Posting Duration After Account Creation

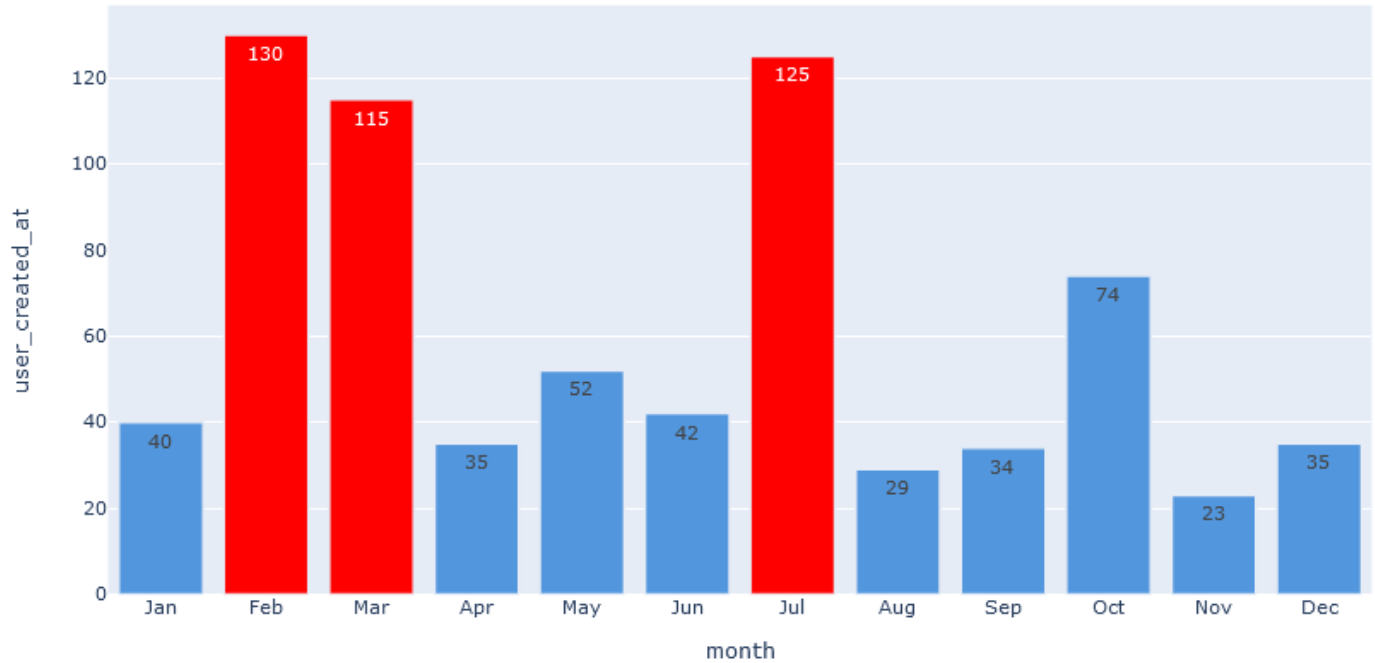
- The number of accounts posted the same day they were created was 66.
- The number of accounts posted the same week they were created was 307.
- The number of accounts posted the same month they were created was 734.

### More investigations

#### *Same Month*

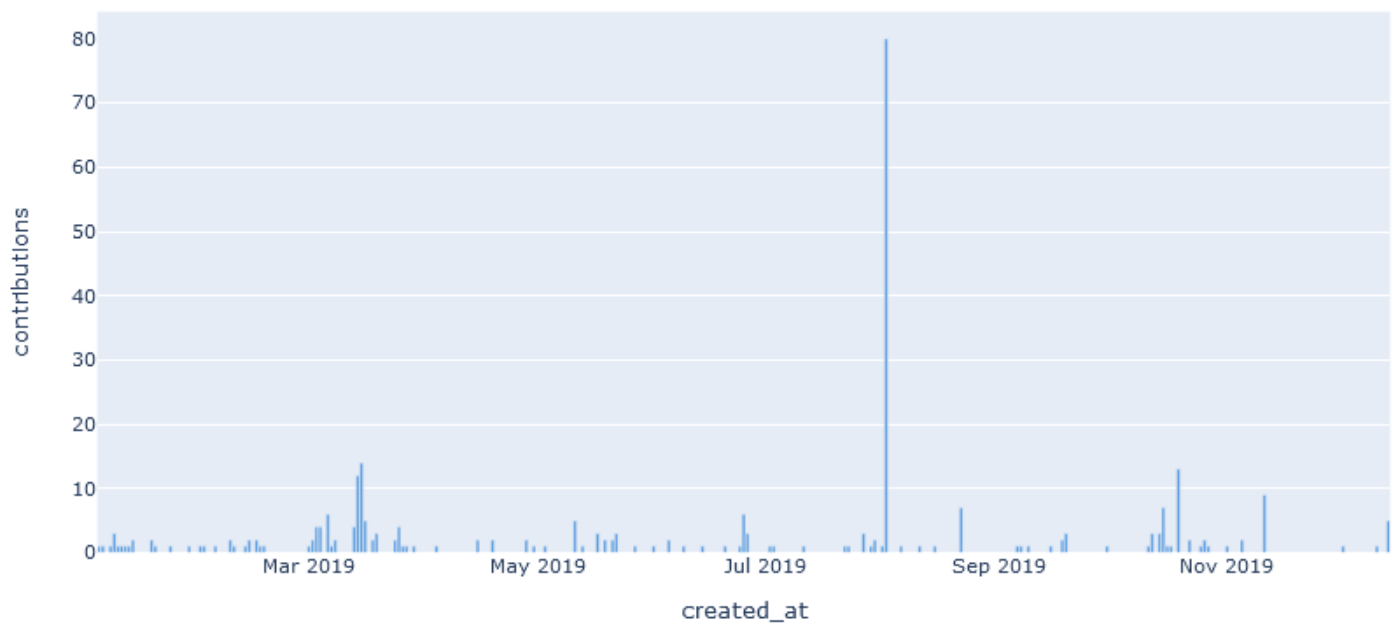
- Feb 130
- Jul 125
- Mar 115
- Oct 74
- May 52
- Jun 42
- Jan 40
- Apr 35
- Sep 34
- Aug 29
- Nov 23
- Dec 13

contributions of the accounts posted/commented  
the same month they were created



*Same week*

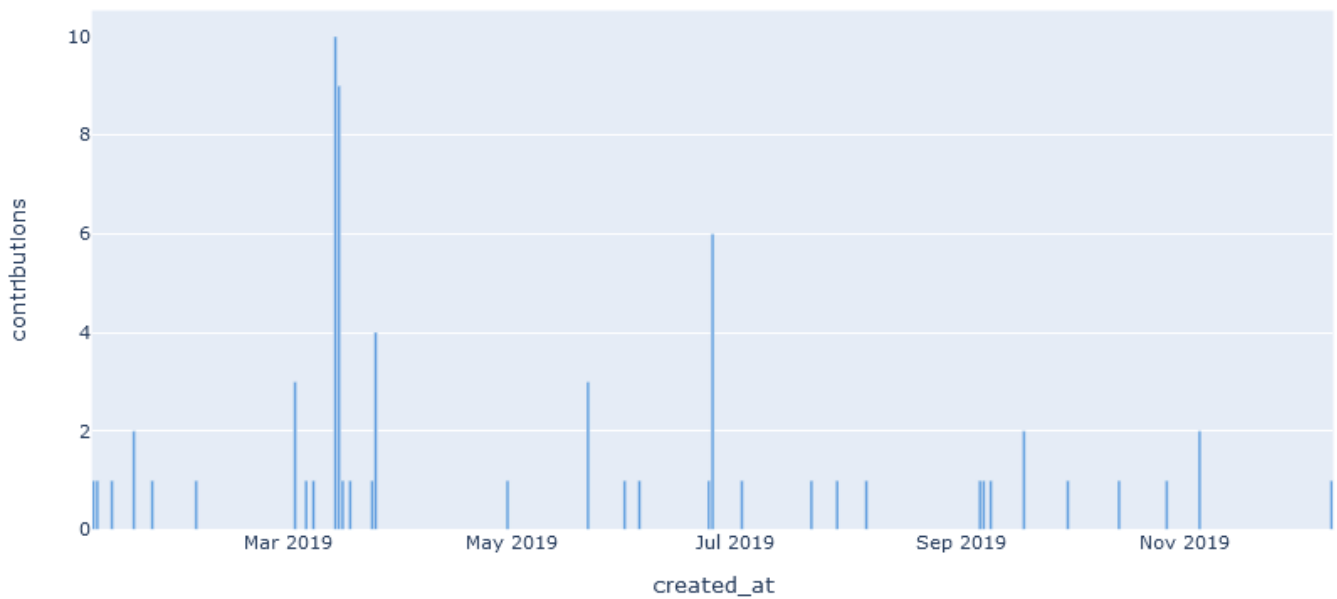
contributions of the accounts posted/commented the same week they were created





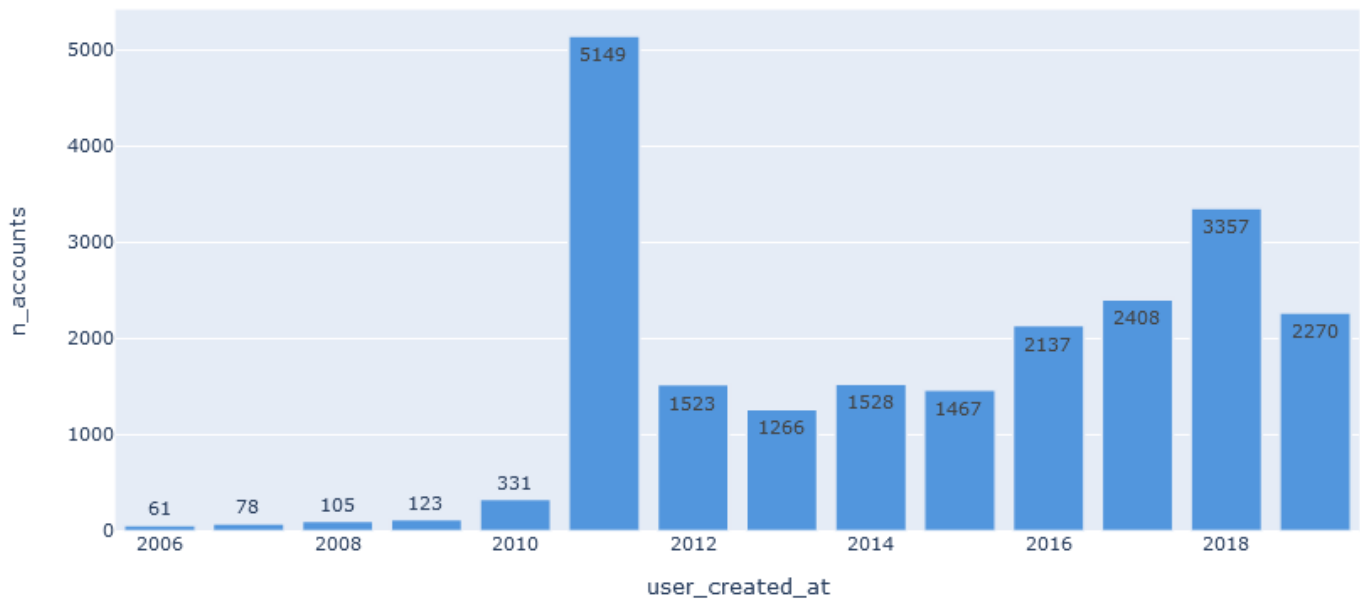
*Same day*

contributions of the accounts posted/commented the same day they were created



Estimation of Number of User Accounts Created in each year / having contributions in 2019

Number of User Accounts Created in each year / having contributions in 2019



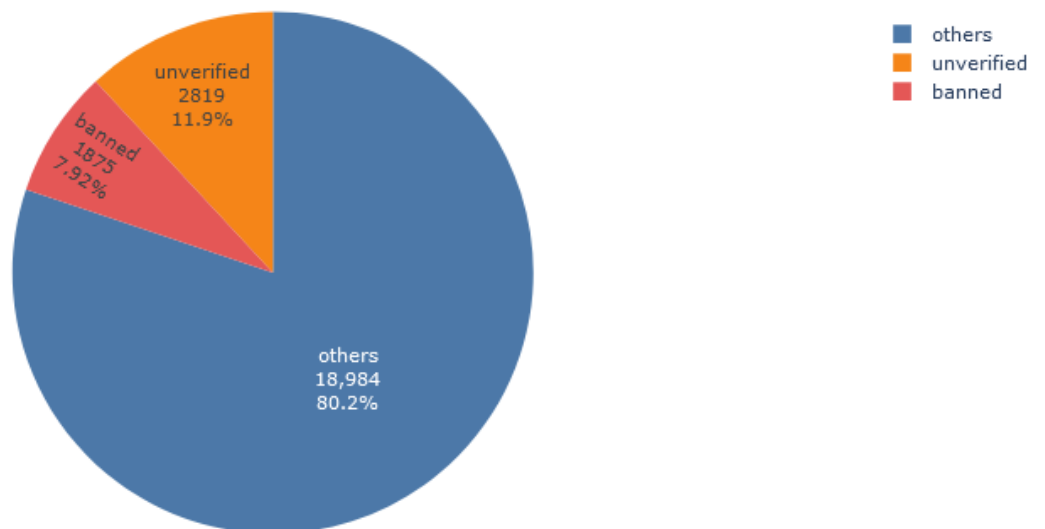
## Banned Unverified accounts

- We have 18984 contributions in 2019 from banned accounts (275 users).
- We have 2819 contributions in 2019 from unverified accounts (459 users).
- 1875 users were made in 2019 and contributed in 2019 .

### Contributions

banned_unverified	
others	18984
unverified	2819
banned	1875

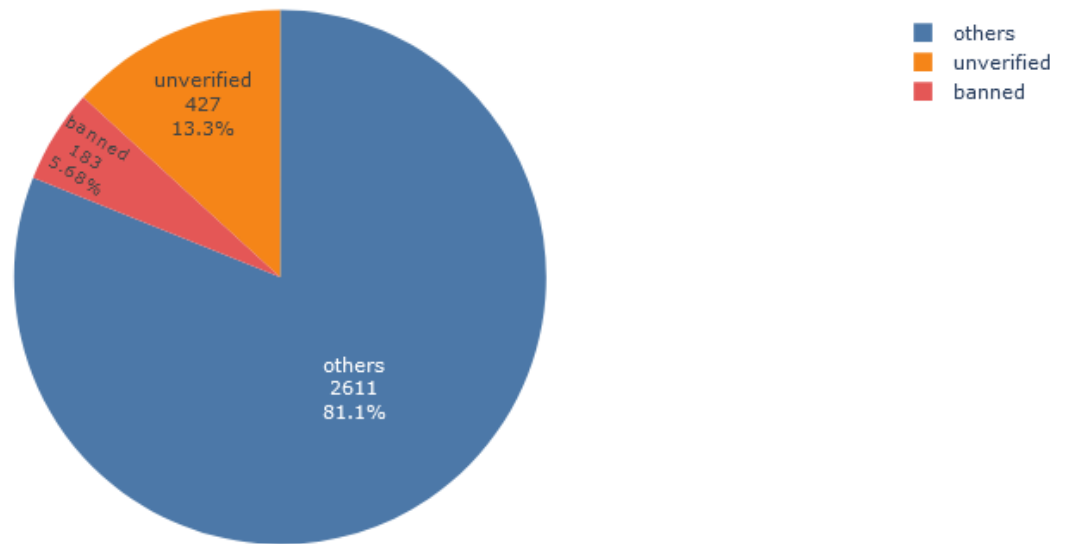
Contributions of banned / unverified /others in 2019



### Peak Day Contributions

banned_unverified	
others	2611
unverified	427
banned	183

## Contributions of banned / unverified /others on the peak day (2019-03-15)

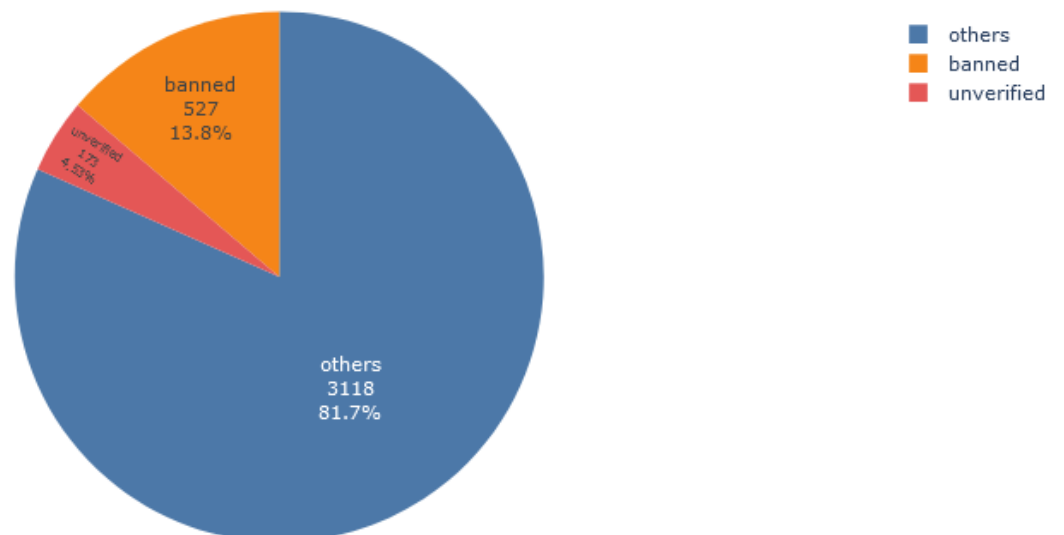


**NOTE:** 18.9% of peak day contributions were made by banned accounts and accounts with unverified email addresses.

## Submissions

banned_unverified	
others	3118
banned	527
unverified	173

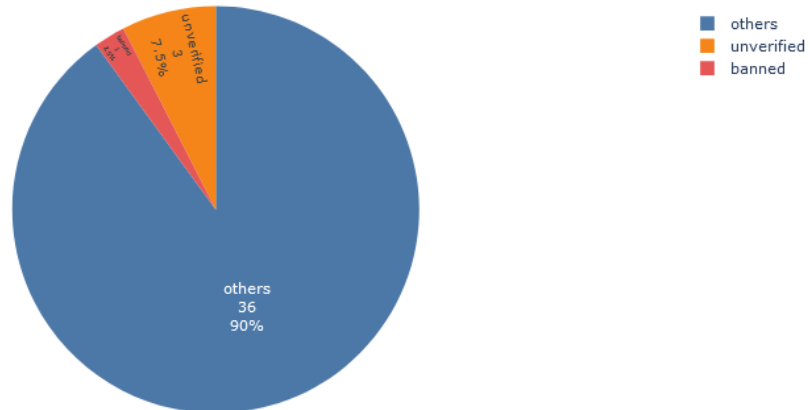
## Submissions of banned / unverified /others in 2019



## Peak Day Submissions

banned_unverified	
others	36
unverified	3
banned	1

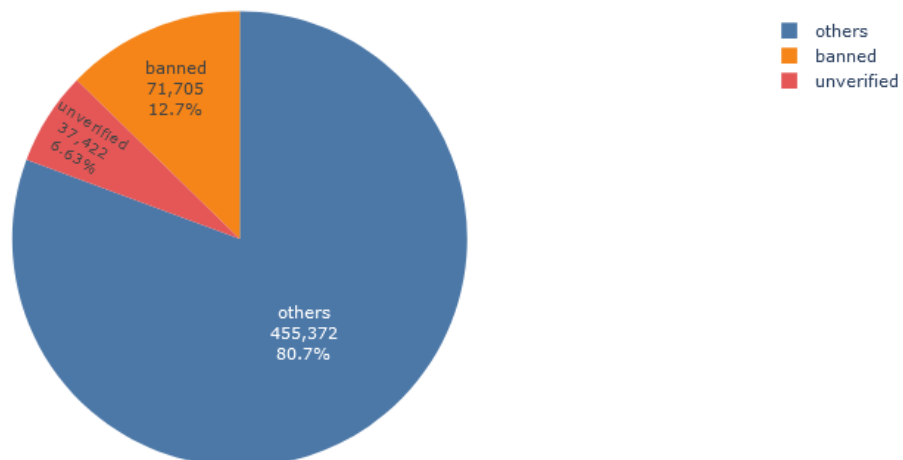
Submissions of banned / unverified /others on the peak day (2019-03-15)



## Total Scores

score	
banned_unverified	
banned	71705.0
others	455372.0
unverified	37422.0

TOTAL SCORES

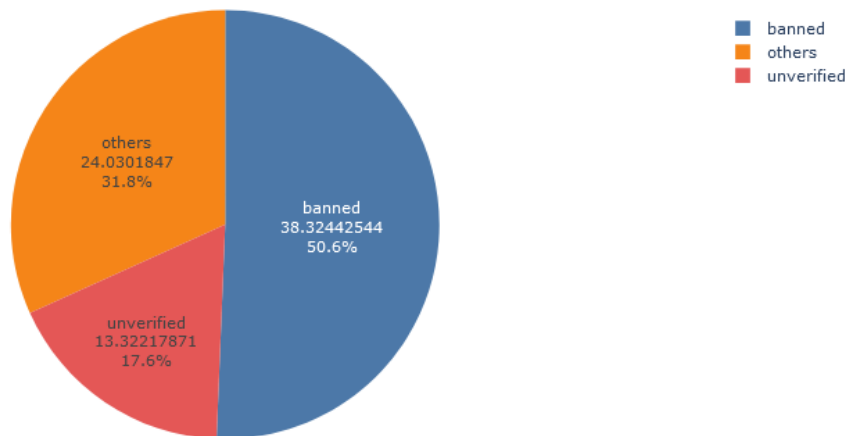


## Average Scores per contribution

- `avg_score = df_scores_relativ.score / df_scores_relative.n_contributions`

banned_unverified	score
banned	38.324425
others	24.030185
unverified	13.322179

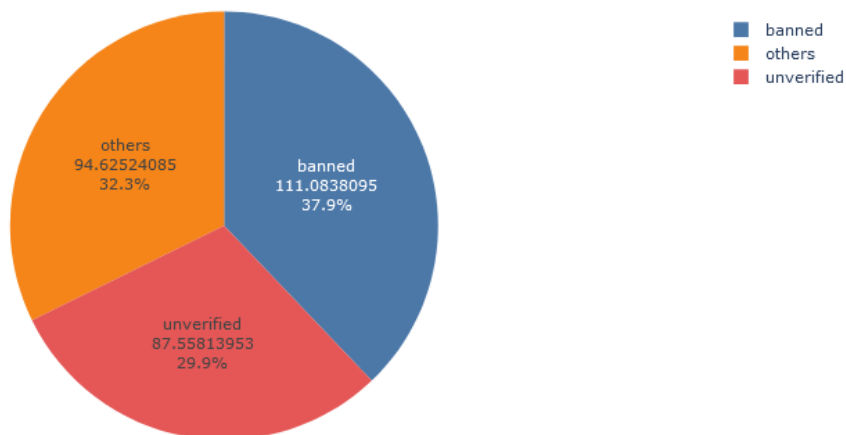
AVERAGE SCORES



## Average Scores per submission

	banned_unverified	score
0	banned	111.083810
1	others	94.625241
2	unverified	87.558140

AVERAGE SCORE for SUBMISSIONS

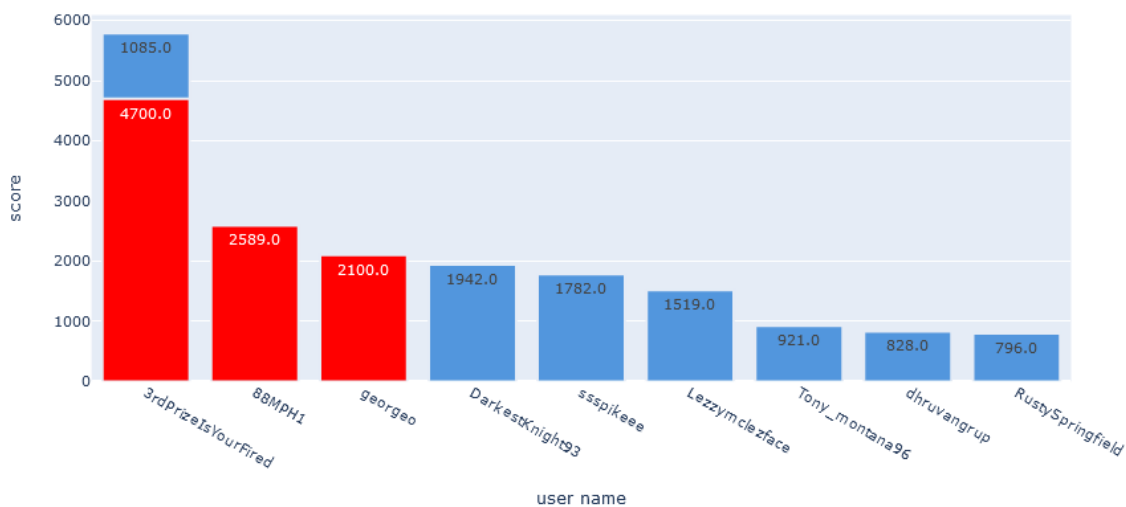


## Banned Accounts

### Banned-Accounts largest scores

-	count	1871
-	mean	38.32
-	std	173.02
-	min	-247
-	25%	1
-	50%	3
-	75%	16
-	max	4700

Banned accounts highest contribution scores



-	7491	3rdPrizelsYourFired
-	6153	88MPH1
-	7776	georgio
-	6110	DarkestKnight93
-	22678	ssspikeee
-	14141	Lezzymclezface
-	7493	3rdPrizelsYourFired
-	6975	Tony_montana96
-	7761	dhruvangrup
-	20749	RustySpringfield

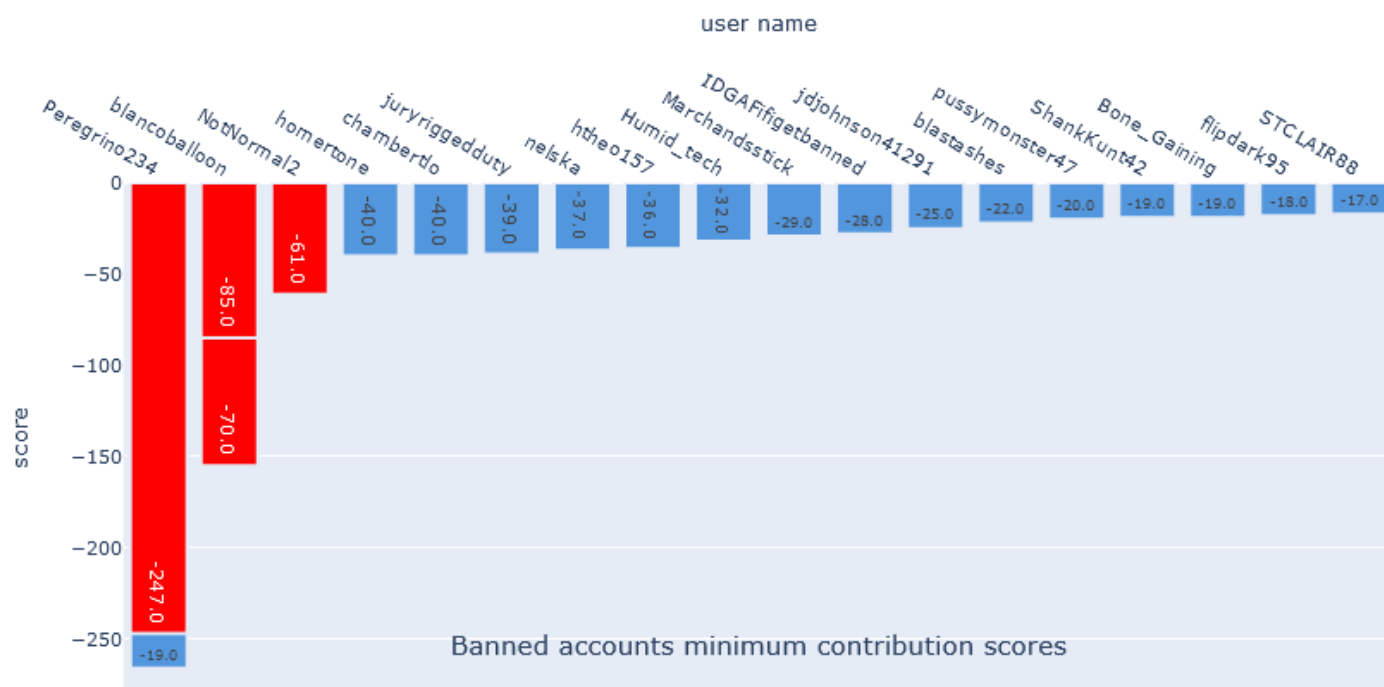
- **"3rdPrizelsYourFired"**: these user contributions got the highest scores.

(Since this user is banned, we have no user information but, we can further investigate his contributions)

"3rdPrizelsYourFired": made 6 contributions

-	submission	5
-	comment	1

## Banned-Accounts minimum scores



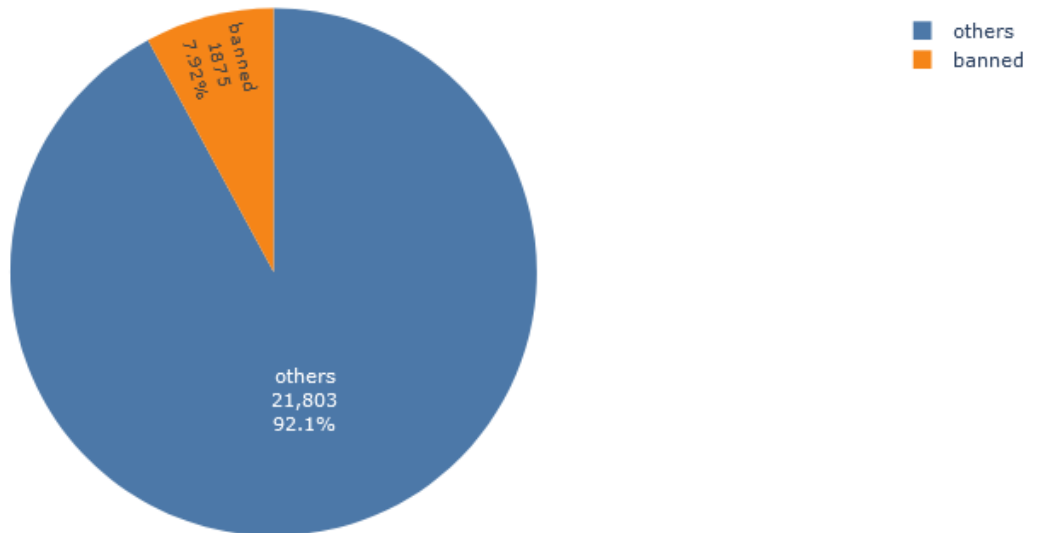
- 9219 Peregrino234
- 17584 blancoballoon
- 17583 blancoballoon
- 14937 NotNormal2
- 17053 homertone
- 9393 chambertlo
- 9263 juryriggedduty
- 6845 nelska
- 16696 htheo157
- 11237 Humid\_tech
- 9876 Marchandsstick
- 21176 IDGAFifigetbanned
- 5432 jdjohnson41291
- 11112 blastashes
- 21672 pussymonster47
- 10798 ShankKunt42
- 11340 Bone\_Gaining
- 9220 Peregrino234
- 13557 flipdark95
- 9267 STCLAIR88

**Peregrino234** this user contribution got the minimum scores.

- he made 6 different comments in one subreddit **r/pussypassdenied** in the same day **2019-03-03**

## Contributions of Banned accounts in 2019

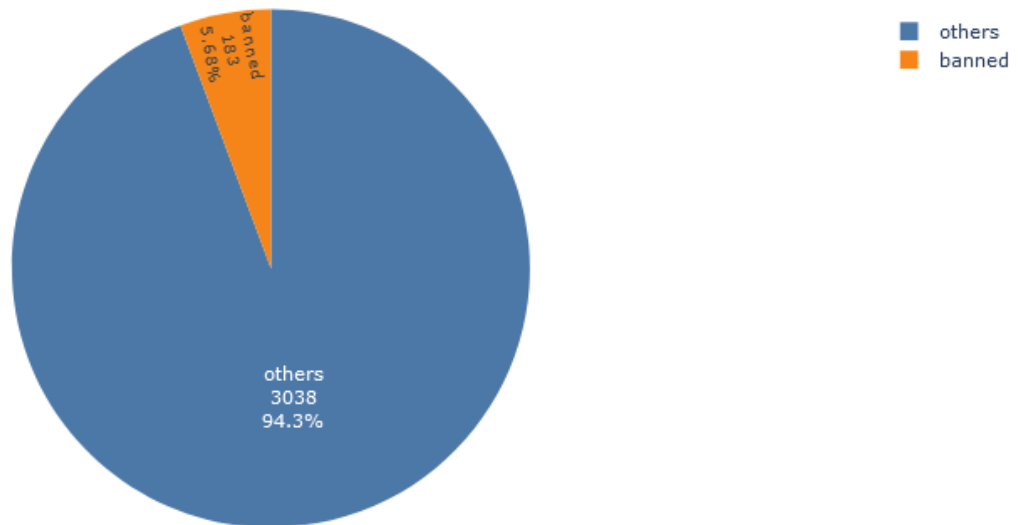
Contributions of Banned accounts in 2019



- The percentage % of 2019 contributions made by Banned accounts: 7.92
- Total banned accounts comments in 2019: 1348

## Banned Accounts Contributions Peaks

Contributions of Banned accounts in 2019

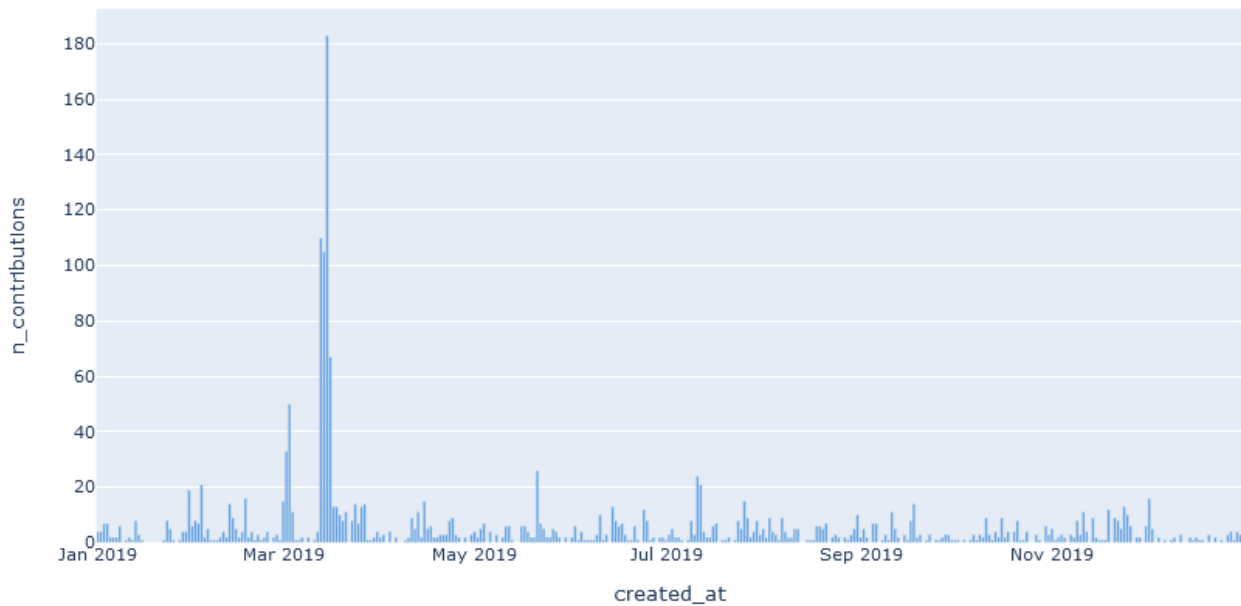




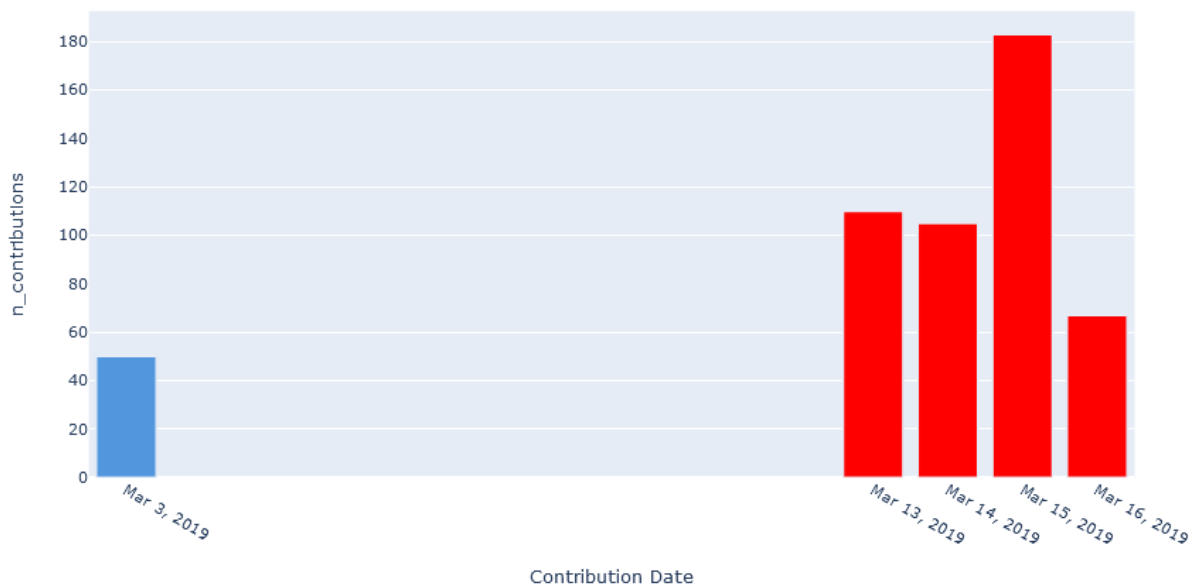
Which dates had the highest contributions of banned users?

- 2019-03-15 183
- 2019-03-13 110
- 2019-03-14 105
- 2019-03-16 67
- 2019-03-03 50
- ...

The number of banned users contributions created on each date

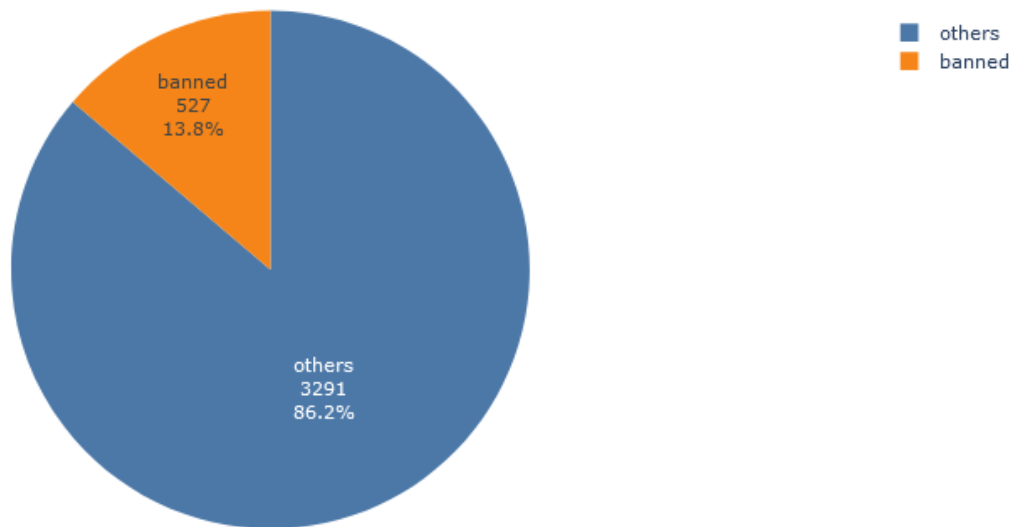


The number of banned users contributions on peak dates



## Submissions of Banned accounts in 2019

Submissions of Banned accounts in 2019



- The percentage % of 2019 submissions made by Banned accounts: 13.8
- Total banned accounts submissions in 2019: 527
- Top submissions:
  - Amber Heard 267
  - [Gif] amber heard 11
  - Amber heard 9
  - Amber Heard nsfw 5
  - Amber Heard - The Informers 4
- **"imsrikant"**: this user made 22 submissions with the same text in the same time in 6 different subreddits
  - r/Celebhub 8
  - r/gentlemanboners 7
  - r/CelebBattles 4
  - r/Celebs 2
  - r/goddesses 1
  - r/WatchItForThePlot 1

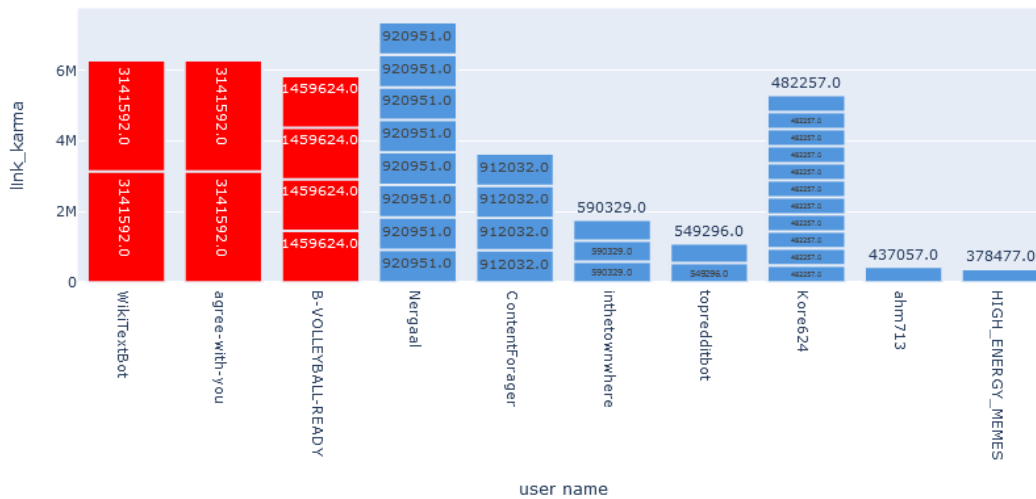
in these dates

  - 2019-05-04 6
  - 2019-04-17 6
  - 2019-05-06 3
  - 2019-04-15 3
  - 2019-04-19 2
  - 2019-12-28 1
  - 2019-04-16 1
  - 2019-05-10 1

# Unverified Accounts

## Unverified Accounts With The Largest Link Karma

Unverified accounts with highest link karma

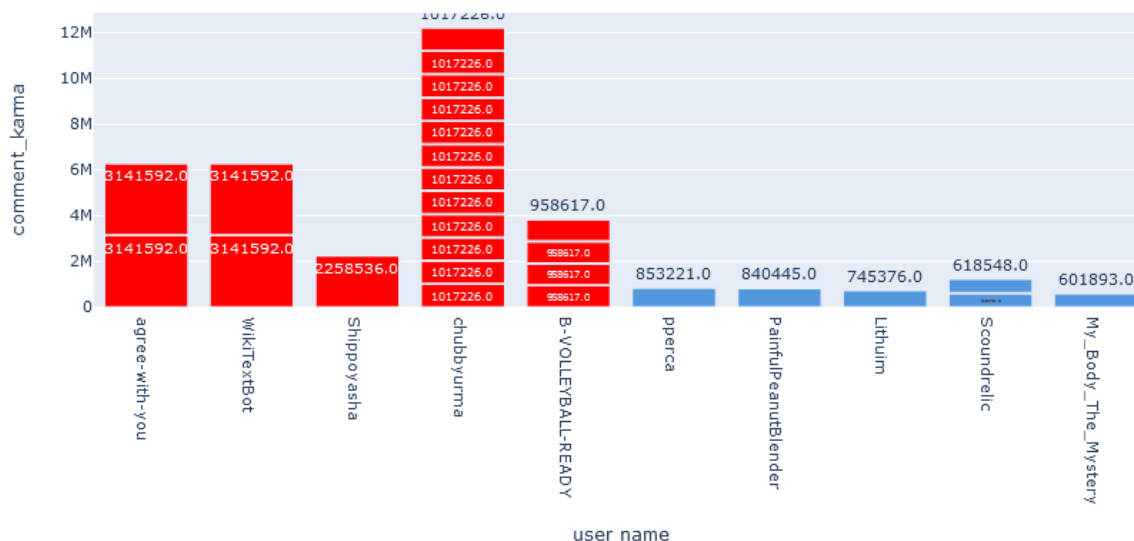


users with highest link karma

- 'WikiTextBot'
- 'agree-with-you'
- 'B-VOLLEYBALL-READY'

## Unverified Accounts With The Largest Comment Karma

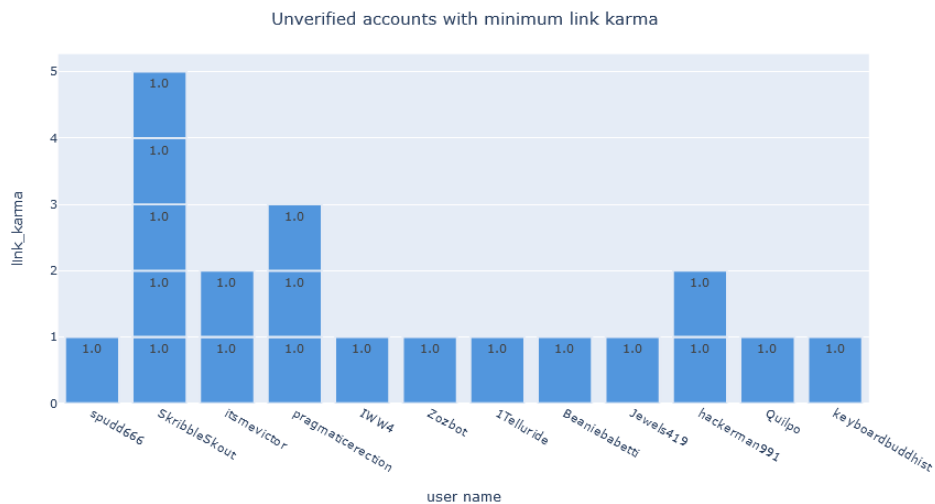
Unverified accounts with highest comment karma



**agree-with-you** unverified account with the highest comment karma

- made 2 comments on two different subreddits:
  - r/PurplePillDebate 1
  - r/JerkOffToCelebs 1
- the time of two comments is:
  - 2018-03-11 00:17:42

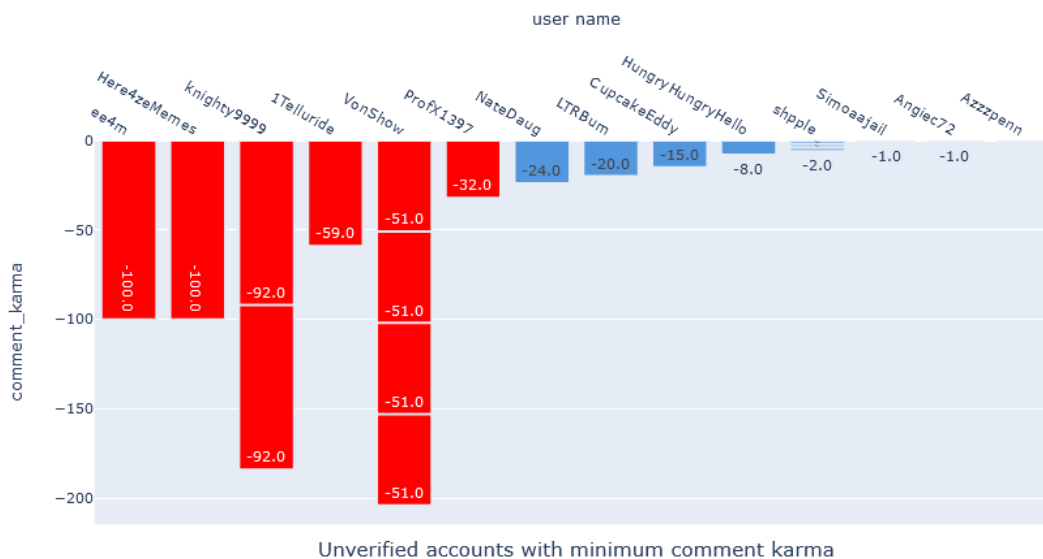
## Unverified Accounts With The Minimum Link Karma



- A lot of unverified users has a link karma of **1**

'spudd666', 'SkribbleSkout', 'itsmevictor', 'itsmevictor', 'spudd666', 'SkribbleSkout', 'itsmevictor', 'pragmaticerection', 'IWW4', 'Zozbot', 'ITelluride', 'Beaniebabetti', 'Jewels419', 'hackerman991', 'Quilpo', 'keyboardbuddhist'

## Unverified Accounts With The Minimum Comment Karma

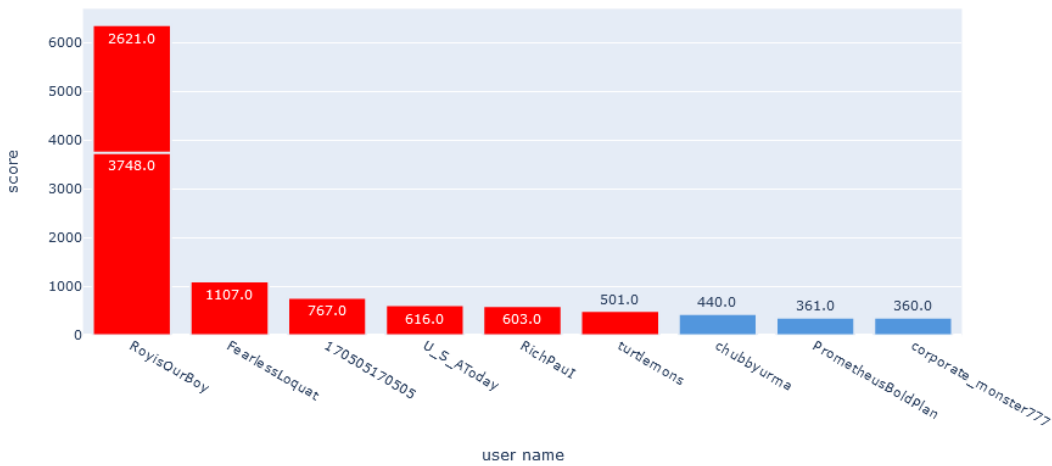


- **ee4m** has the minimum comment karma

## Explore the largest scores

-	count	2809
-	mean	13.32
-	std	96.85
-	min	-150
-	25%	1
-	50%	2
-	75%	7
-	max	3748

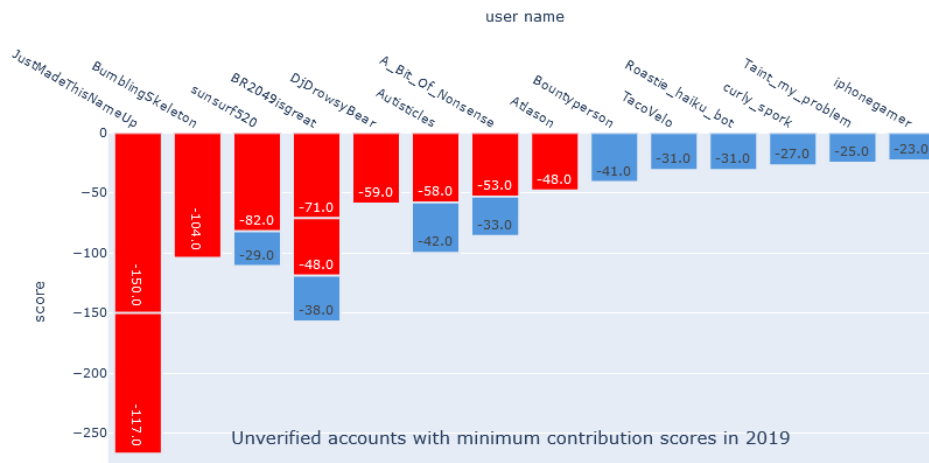
Unverified accounts with highest contribution scores in 2019



**RoyisOurBoy** this user has the highest score among the unverified users

- created at 2019-03-02
- made 3 submissions in 2 different subreddits:
  - r/entertainment 2
  - r/movies 1

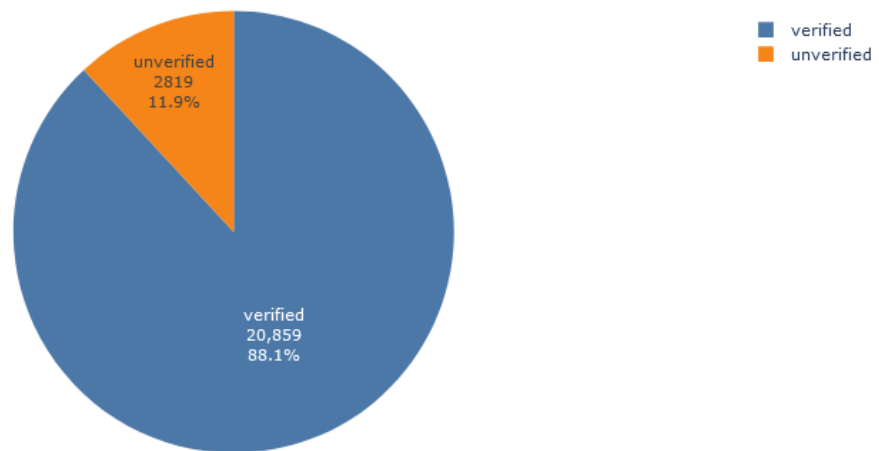
## Explore the minimum scores



- **JustMadeThisNameUp** this user has the minimum score among the unverified users

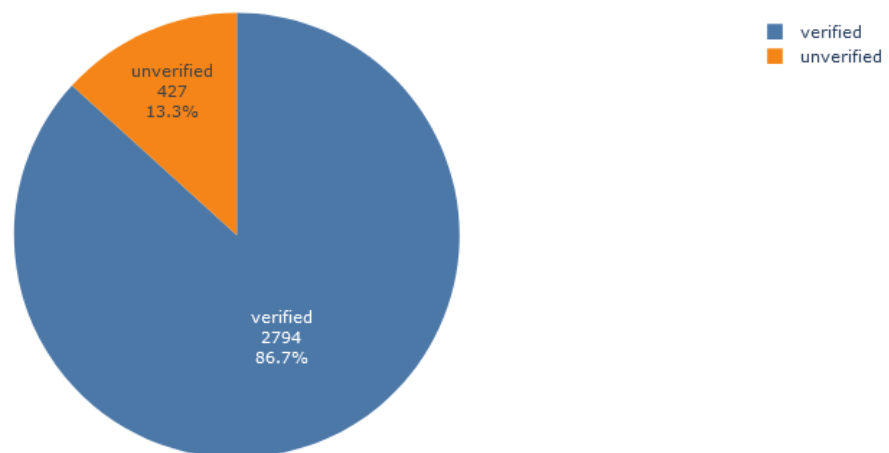
## Contributions of Unverified accounts in 2019

Contributions of Unverified accounts in 2019



## Peak day contributions ( 2019-03-15 )

Contributions of Unverified accounts on peak day (2019-03-15)

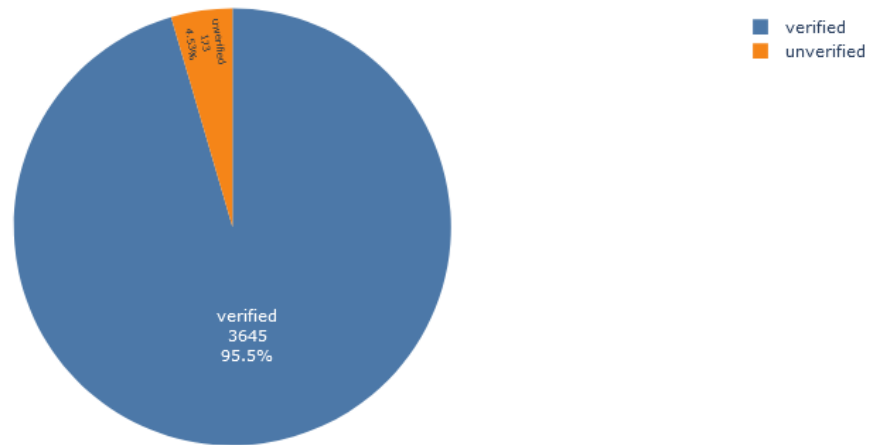


## Comments

- Total unverified accounts comments in 2019: 2646
- Top comments
  - KFM 10
  - FMK 8
  - Margot 8
  - Amber 7
  - FKM 6

## Submissions

Submissions of Unverified accounts in 2019



- Top submissions:
  - Amber Heard 43
  - Amber Heard - The Informers (2009) 6
  - Shakira, Amber Heard, Candice Swanepoel 3
  - Amber Heard in Aquaman 3
  - Johnny Depp was abused by ex-wife Amber Heard, new evidence shows 2

user **Inbox\_ME\_UR\_WHATSAPP** made 4 submissions in the 2 subreddits **r/Celebsnudess**, **r/sexycelebs** in different days:

- 2019-01-08 1
- 2019-01-13 1
- 2019-01-11 1
- 2019-01-30 1

user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
Inbox_ME_UR_WHATSAPP	False	False	False	False	27.0	34244.0	2019-01-07 11:18:27	unverified	2019

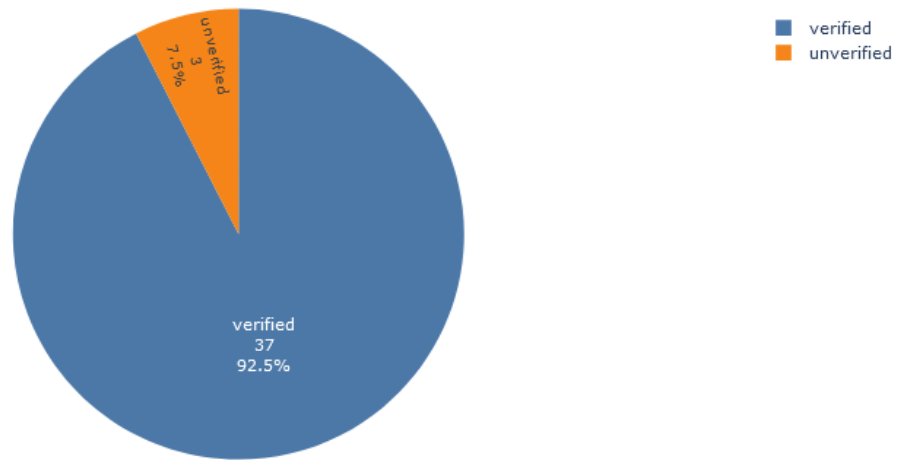
user **Win168k** made 4 submissions in the same subreddit **u/Win168k**

- 2019-12-09 1
- 2019-10-15 1
- 2019-10-13 1
- 2019-08-11 1

user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
Win168k	False	False	False	False	5.0	1118.0	2018-08-03 17:35:12	unverified	2018

## Peak day submissions 2019-03-15

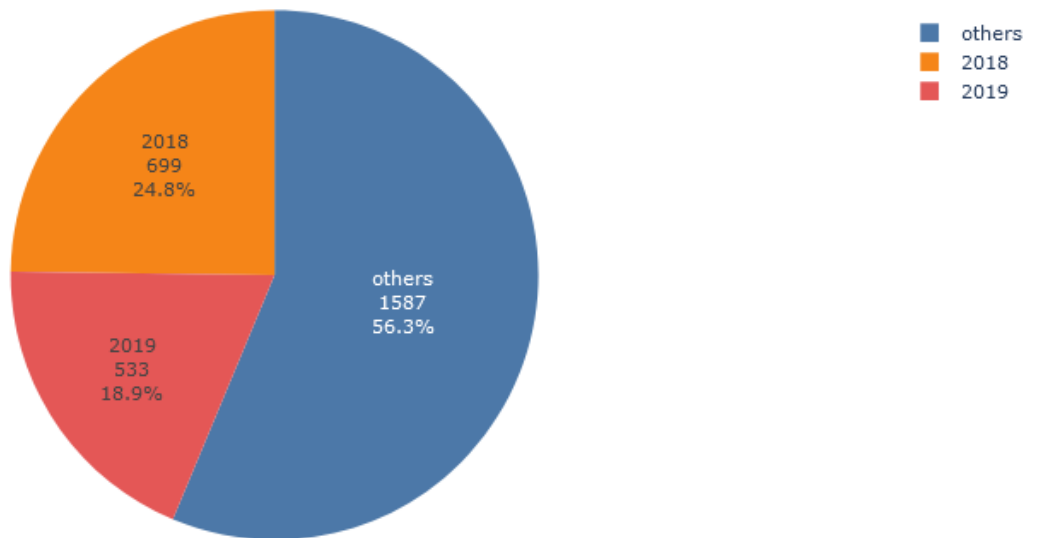
Contributions of Unverified accounts on peak day (2019-03-15)



## The account creation year of the unverified accounts contributed in 2019

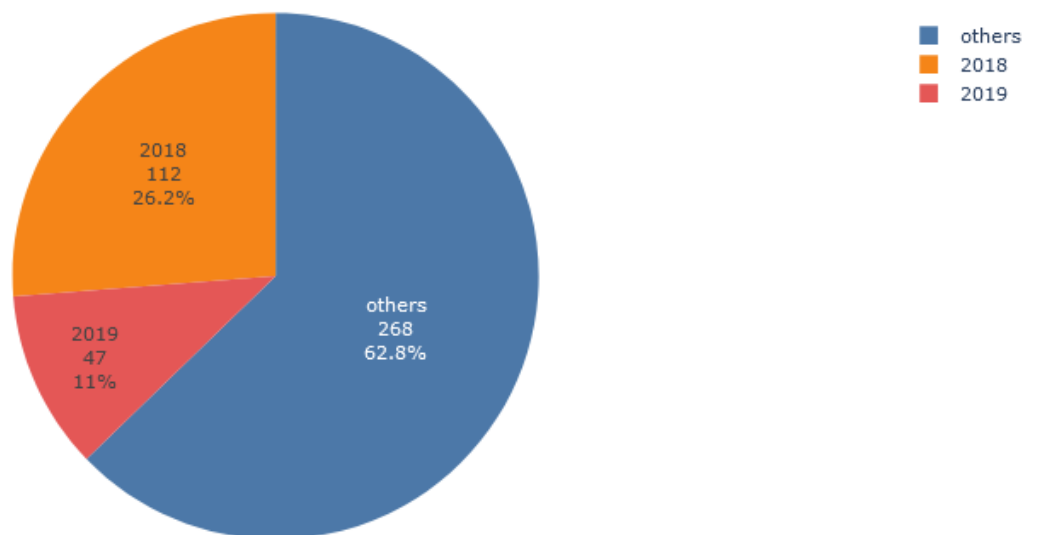
### Contributions

Contributions of Unverified accounts in 2019



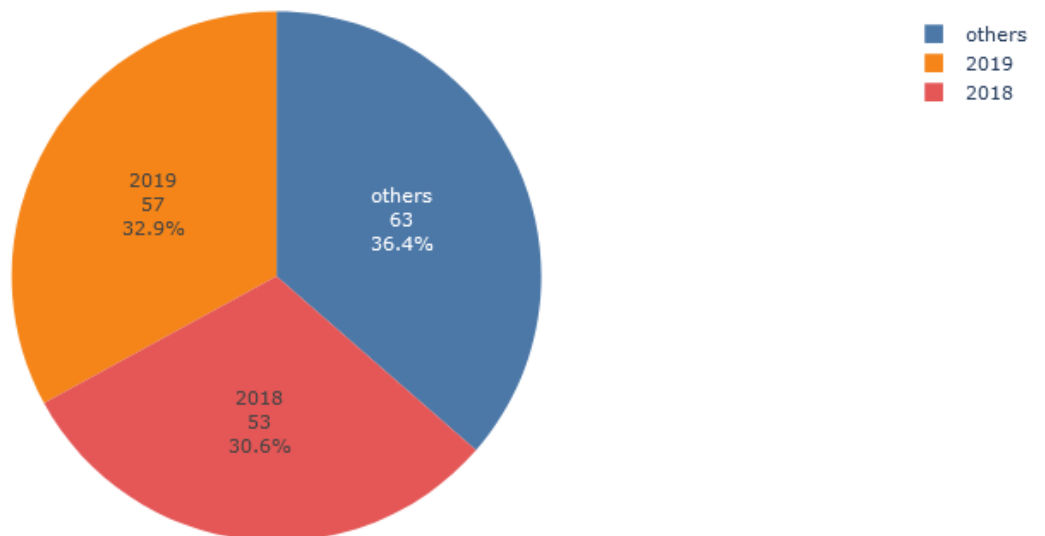


### Contributions of unverified accounts on the peak day (2019-03-15)

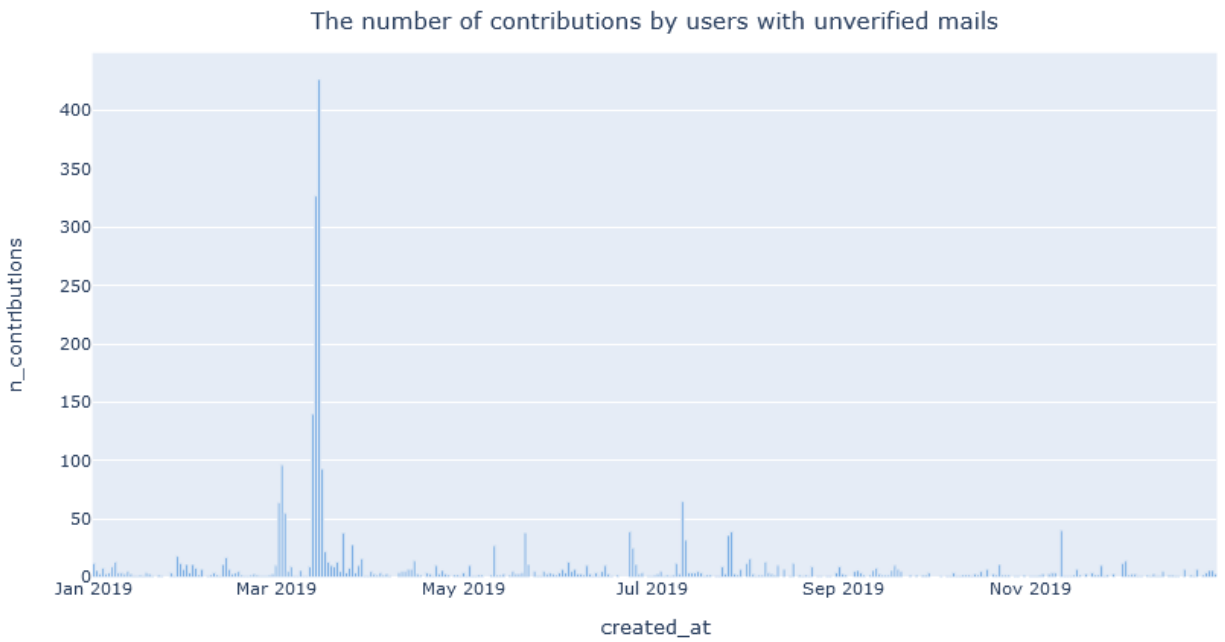


### Submissions

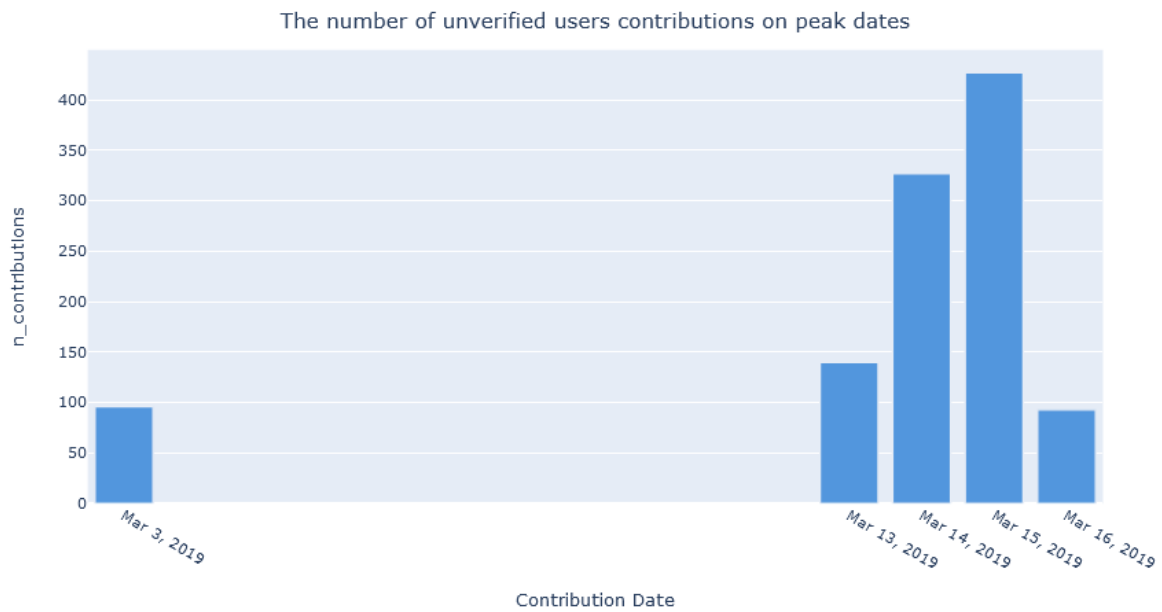
#### Submissions of Unverified accounts in 2019



- Unverified Accounts made 3 submissions on the peak day 2019-03-15



Which dates had the highest contributions of unverified accounts?

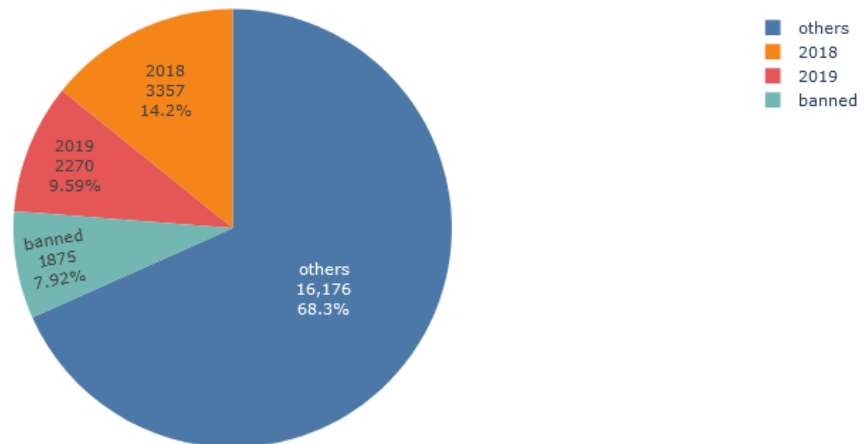


	created_at	n_contributions
57	2019-03-03	96
67	2019-03-13	140
68	2019-03-14	327
69	2019-03-15	427
70	2019-03-16	93

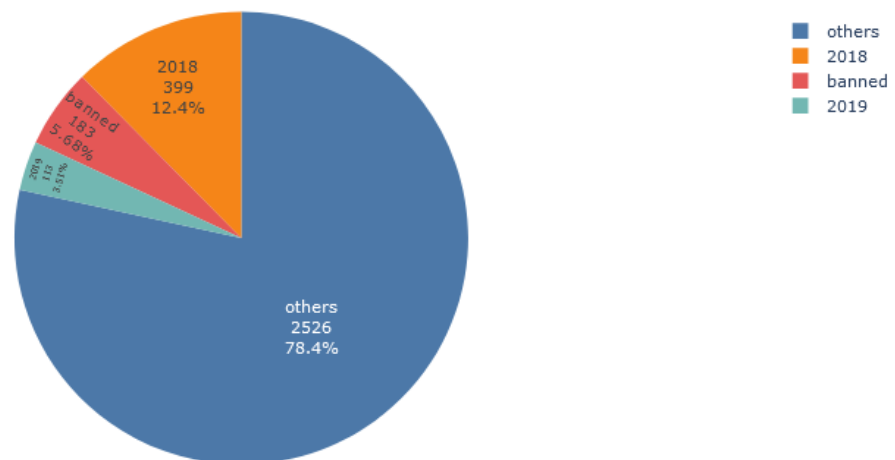
# New Vs Others

## New Accounts Contributions

Contributions of newly (accounts created in 2018 and 2019) created accounts in 2019



Contributions of newly (accounts created in 2018 and 2019) created accounts on the peak day (2019-03-15)

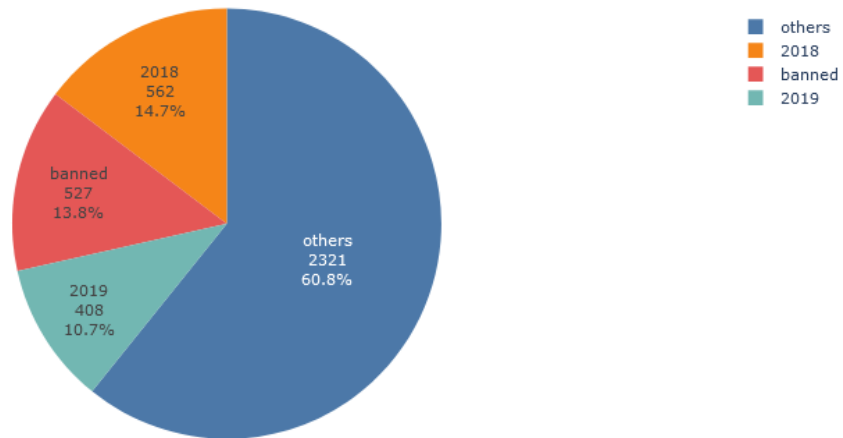


### NOTE:

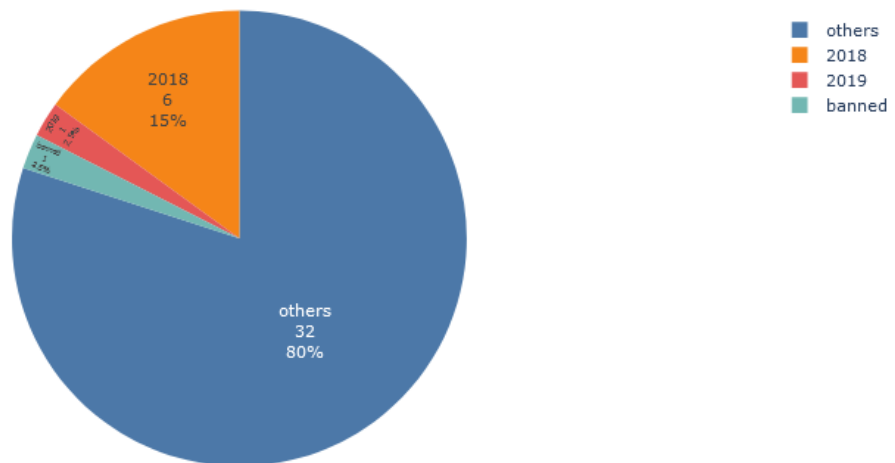
- About 23.79% of 2019 Contributions in 2019 were made by users created in 2018 and 2019.
- About 15.91% of 2019 Contributions on 2019-03-15 were made by users created in 2018 and 2019.

## New Accounts Submissions

Submissions of newly (accounts created in 2018 and 2019) created accounts in 2019



Submissions of 2018 and 2019 accounts on the peak day (2019-03-15)



- About 25.4% of 2019 Submissions in 2019 were made by users created in 2018 and 2019.
- About 17.5% of 2019 Submissions on 2019-03-15 were made by users created in 2018 and 2019.

**NOTE:** We only have 40 submissions on peak day with about 3181 comments and replies

## Accounts created in 2018

### Contributions

- Total contributions in 2019 made by newly created accounts(2018): 3357
- The percentage % of 2019 contributions made by newly created accounts(2018): 14.18

## Comments

- Total comments in 2019 made by newly created accounts(2018): 2795

## Submissions

- Total submissions in 2019 made by newly created accounts(2018): 562
- The percentage % of 2019 submissions made by newly created accounts(2018): 14.72

## Accounts created in 2019

## Contributions

- Total contributions in 2019 made by newly created accounts(2019): 2270
- The percentage % of 2019 contributions made by newly created accounts(2019): 14.18

## Comments

- Total comments in 2019 made by newly created accounts(2019): 1862

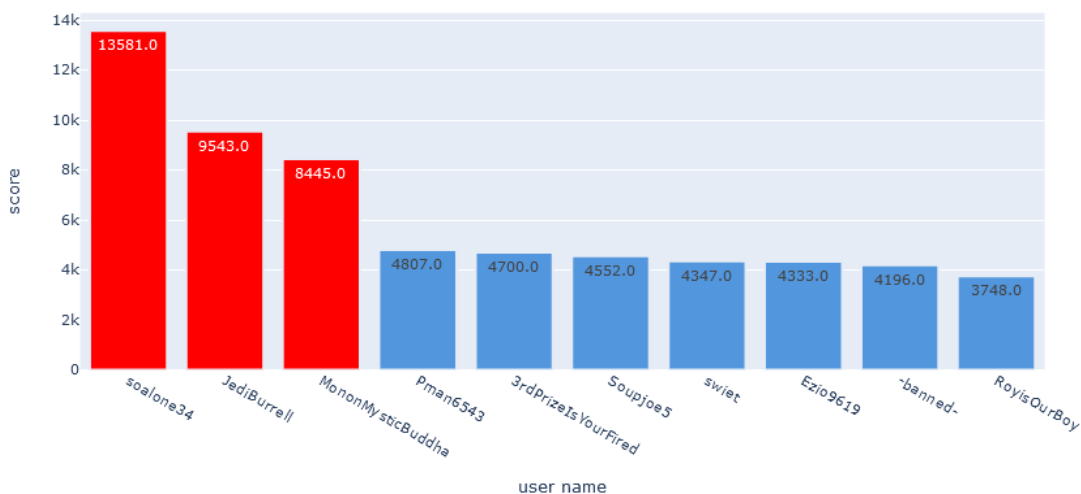
## Submissions

- Total submissions in 2019 made by newly created accounts(2019): 408
- The percentage % of 2019 submissions made by newly created accounts(2019): 10.69

## 2019 Contributions Scores

- count 23630
- mean 23.9
- std 175.3
- min -247
- 25% 1
- 50% 2
- 75% 9
- max 13581

Accounts with highest contribution scores in 2019



The red bars indicates banned accounts

- Users have high scores
  - 13814                      soalone34
  - 12609                     JediBurrell
  - 14703                     MononMysticBuddha
  - 20066                     Pman6543
  - 7491                       3rdPrizelsYourFired
  - 11195                     Soupjoe5
  - 15996                     swiet
  - 5643                       Ezio9619
  - 361                        -banned-
  - 8224                       RoyisOurBoy

#### **soalone34**

- Created on 2019-03-15
- Has only 8 contributions in 2019
  - comment 6
  - submission 2
- in those subreddits
  - r/MensRights 4
  - r/movies 3
  - r/entertainment 1
- Users have minimum scores:
  - 9219                      Peregrino234
  - 19780                    JustMadeThisNameUp

#### **MedivhTheEternal**

- Created on 2019-03-03
- Has the minimum contribution scores in 2019

#### Texts of **Peregrino234**:

- I know this has nothing to do with the post but I just want to say Hitler was a really bad person.
- Sort my comments by top
- I said comments
- Lel
- Those english speaking insults have no power here
- What? I just spelled wrong the word hitler and I had to correct it

# Conclusions

## Banned / Unverified Accounts

- About 19.82% of 2019 contributions were made by banned (7.92% --> 1875) and unverified ( 11.9% --> 2819) accounts.
- About 18.3% of 2019 submissions were made by banned (13.8% --> 527) and unverified (4.52% -> 173) accounts.
- 18.9% of the peak day contributions (2019-03-15) were made by banned (5.68% --> 183) and unverified (13.3% --> 427) accounts.
- 10% of submissions of the peak day submissions (2019-03-15) were made by banned accounts( 2.5% --> 1) and unverified accounts (7.5% --> 3).

## Banned

- **"3rdPrizelsYourFired"**: this user's contributions got the highest scores.  
  
(Since this user is banned, we have no user information but, we can further investigate his contributions)
- **"3rdPrizelsYourFired"**: made 6 contributions
  - submission 5
  - comment 1
- **Peregrino234** this user contribution got the minimum scores.
  - he made 6 different comments in one subreddit **r/pussypassdenied** in the same day **2019-03-03**
- **NOTE: "imsrikant"**: this user made 22 submissions with the same text in the same time in 6 different subreddits
  - r/Celebhub 8
  - r/gentlemanboners 7
  - r/CelebBattles 4
  - r/Celebs 2
  - ...

**in these dates**

  - 2019-05-04 6
  - 2019-04-17 6
  - 2019-05-06 3
  - 2019-04-15 3
  - 2019-04-19 2
  - ...

## Unverified

### Unverified Accounts Contributions in 2019

Accounts Creation Year	n_contributions
------------------------	-----------------

2018	24.8% (699)
------	-------------

2019	18.9% (533)
------	-------------

others	56.3% (1587)
--------	--------------

### Unverified Accounts Contributions in 2019 peak day (2019-03-15)

Accounts Creation Year	n_contributions
------------------------	-----------------

2018	26.2% (112)
------	-------------

2019	11% (47)
------	----------

others	62.8% (268)
--------	-------------

### Unverified Accounts Submissions in 2019

Accounts Creation Year	n_submissions
------------------------	---------------

2018	30.6% (53)
------	------------

2019	32.9% (57)
------	------------

others	36.4% (63)
--------	------------

- **users with highest link karma**
  - 'WikiTextBot'
  - 'agree-with-you'
  - 'B-VOLLEYBALL-READY'
- **agree-with-you** unverified account with the highest comment karma
  - made 2 comments on two different subreddits:
    - r/PurplePillDebate 1



- r/JerkOffToCelebs 1
- the time of two comments is: 2018-03-11 00:17:42
- A lot of unverified users has a link karma of **1**
  - 'spudd666', 'SkribbleSkout', 'itsmevictor', 'itsmevictor', 'pragmaticerection', 'pragmaticerection', 'pragmaticerection', 'SkribbleSkout', 'IWW4', 'Zozbot', 'SkribbleSkout', '1Telluride', 'SkribbleSkout', 'SkribbleSkout', 'Beaniebabetti', 'Jewels419', 'hackerman991', 'hackerman991', 'Quilpo', 'keyboardbuddhist'
- **ee4m** has the minimum comment karma
- **RoyisOurBoy** this user has the highest score among the unverified users
  - created at 2019-03-02
  - made 3 submissions in 2 different subreddits:
    - r/entertainment 2
    - r/movies 1
- **JustMadeThisNameUp** this user has the minimum score among the unverified users

## 2019 Accounts

- Total contributions in 2019 made by newly created accounts(2019): 2270
- The percentage % of 2019 contributions made by newly created accounts(2019): 14.18
- Total comments in 2019 made by newly created accounts(2019): 1862
- Total submissions in 2019 made by newly created accounts(2019): 408
- The percentage % of 2019 submissions made by newly created accounts(2019): 10.69
- About 23.79% of 2019 Contributions in 2019 were made by users created in 2018 and 2019.
- About 15.91% of 2019 Contributions on 2019-03-15 were made by users created in 2018 and 2019.
- About 25.4% of 2019 Submissions in 2019 were made by users created in 2018 and 2019.
- About 17.5% of 2019 Submissions on 2019-03-15 were made by users created in 2018 and 2019.

## 2018 and 2019 Accounts Contributions in 2019

### Accounts Creation Year    n\_contributions

2018                      14.2% (3357)

2019                      9.59% (2270)

banned	7.92 (1875))
others	68.3% (16176)

#### 2018 and 2019 Accounts Contributions in 2019 peak day (2019-03-15)

##### **Accounts Creation Year    n\_submissions**

2018	12.4% (399)
2019	3.51% (113)
banned	5.68% (183)
others	78.4% (2526)

#### 2018 and 2019 Accounts Submissions in 2019

##### **Accounts Creation Year    n\_contributions**

2018	14.7% (562)
2019	10.7% (408)
banned	13.8% (527)
others	68.3% (16176)

#### 2018 and 2019 Accounts Submissions in 2019 peak day (2019-03-15)

##### **Accounts Creation Year    n\_submissions**

2018	12.4% (399)
2019	2.5% (1)
banned	2.5% (1)
others	78.4% (2526)

- user **Inbox\_ME\_UR\_WHATSAPP** made 4 submissions in the 2 subreddits **r/Celebsnudess**, **r/sexycelebs** in different days:
  - 2019-01-08 1
  - 2019-01-13 1
  - 2019-01-11 1
  - 2019-01-30 1
- user **Win168k** made 4 submissions in the same subreddit **u/Win168k**
  - 2019-12-09 1
  - 2019-10-15 1
  - 2019-10-13 1
  - 2019-08-11 1
- **Soalone34**
  - Created on 2019-03-15
  - Has only 8 contributions in 2019
    - comment 6
    - submission 2
  - in those subreddits
    - r/MensRights 4
    - r/movies 3
    - r/entertainment 1
- **MedivhTheEternal**
  - Created on 2019-03-03
  - Has the minimum contribution scores in 2019